Pacific Architect and Builder

WITH CONSTRUCTION NEWS BULLETIN

School of Arch &
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Librarian
University of Ore
Eugene, Ore

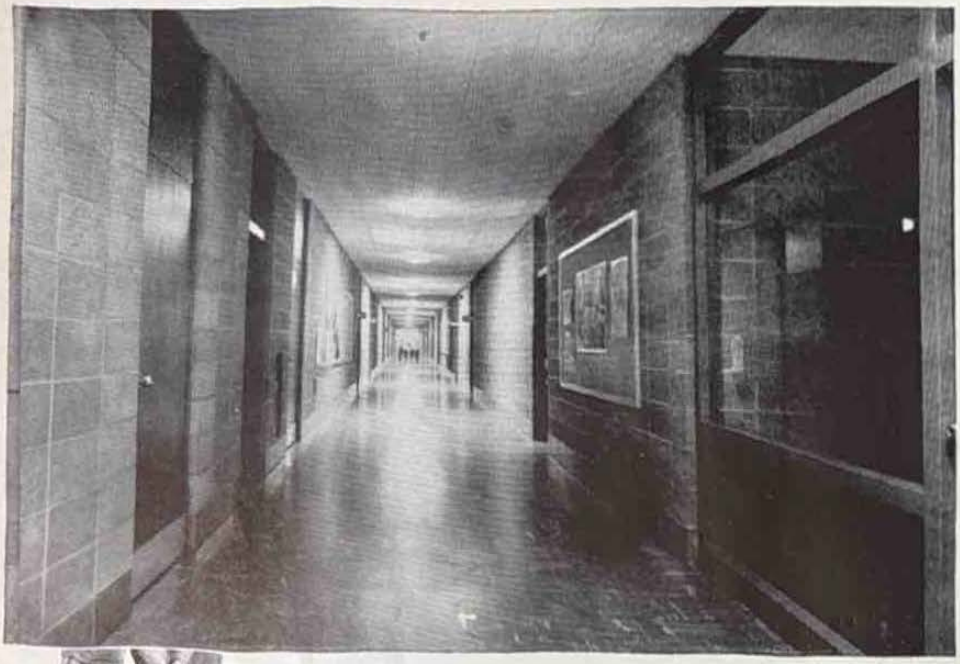
Action for small town renewal

Design: music building, two supermarkets

Building methods: ceramic veneer curtain wall

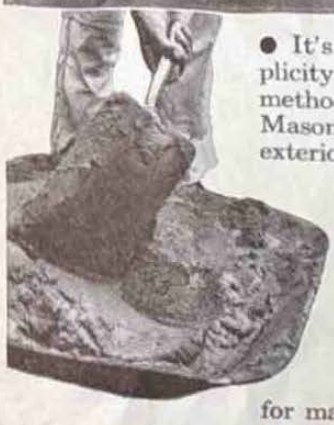
JANUARY 1958

SCHOOLMATES...



...a trowel, an "educated" hand, lightweight block and Lone Star Masonry Mortar

RESULT: low cost, low upkeep, quality schools for economy-wise Tarrytown.



● It's the familiar story of *simplicity*—simplicity of design and simplicity of construction method. These, together with Lone Star Masonry Cement—used on both interior and exterior work—gave these modern school buildings their quality plus economy.

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*Reg. U. S. Pat. Off.

TAPPAN HILL and JOHN PAULDING SCHOOLS, Tarrytown, N. Y.
Architect: ROBERT A. GREEN, Tarrytown, N. Y.

Contractors:
JAMES ROMEO & ASSOCIATES, Tuckahoe, N. Y. (Tappan Hill)
STEWART M. MULLER, INC., Croton, N. Y. (Paulding)
TOMRICH CONSTRUCTION CO., INC., Hartsdale, N. Y. Masonry (Paulding)
"Incor" Waylite Block: CASTLE BLOCKS INC., Tarrytown

"Lone Star" Masonry:
A. P. HUSTED CO., INC., Tarrytown
HUDSON RIVER YARDS CORP., Tarrytown

TAPPAN HILL SCHOOL (right): Interior walls are of 'Incor' Waylite block, brick exterior. Lone Star Masonry Cement used throughout.

JOHN PAULDING SCHOOL (above): Attractive, low-cost primary school in Tarrytown, N. Y. Classrooms are self-sufficient each with own facilities.

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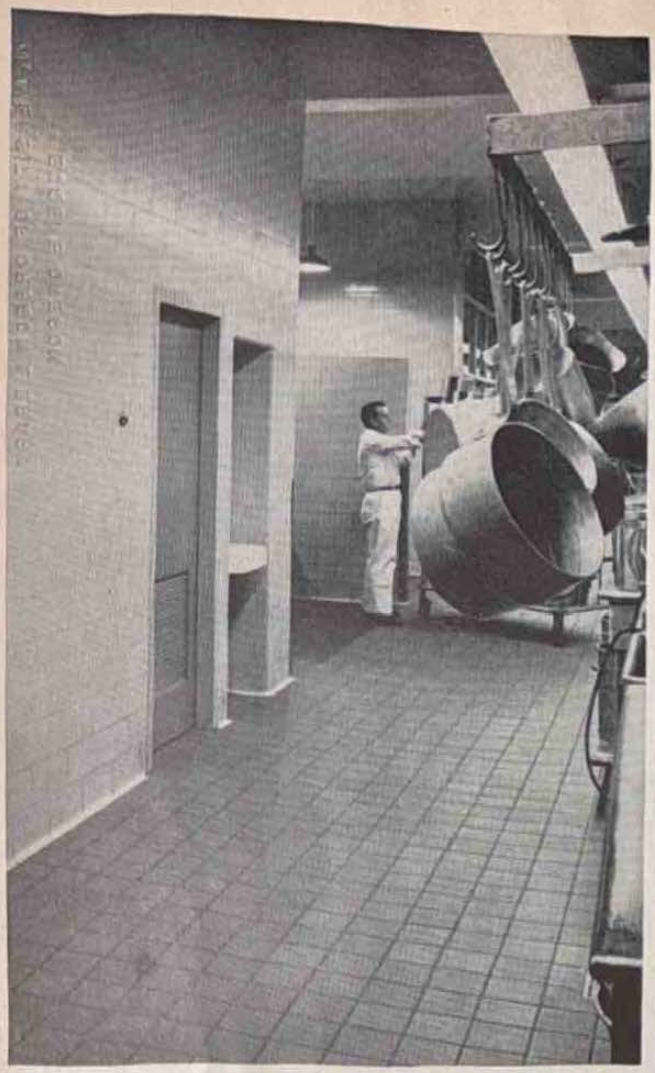
THE COVER

Music Classroom Building, Santa Barbara College, Goleta, Calif. (p. 11). Pereira & Luckman, Architects-Engineers; Erwin Lang photo.



Agnews State Hospital, Agnew, California
Architect: California Division of Architecture

YOU CAN "FEEL" THE CLEANLINESS

It was almost mealtime (4:30 P.M.) when this photograph was taken. Yet, every inch of this Agnews State Hospital kitchen was as spotlessly clean and smooth as a cup on your own table at home. The time and effort it takes to keep this kitchen clean are surprisingly little, because of the use of tile. Walls of Kraftile Glazed *Structural* Tile are impervious to grease, smoke, acids and food stains. They wipe clean with one stroke, never need patching or painting. Installed cost is clearly competitive because Kraftile combines both wall and finish. Masons do the complete installation in minimum time. Wherever sanitation is important in your jobs, consider the practical beauty and economy of Kraftile, and its easy upkeep. Clear glaze plus 12 harmonious colors in standardized sizes and shapes. For complete information including graphic standards and specifications, write

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THE BUILDING MONTH: TRENDS

Construction forecasters see 1958 as a solid, if not spectacular year, with housing as one of the bright spots in the overall picture. Almost everyone agrees that housing starts, estimated at close to one million units in 1957, will exceed that figure within the next 12 months. (Building permit totals for 1957 for the five western states are found on p. 9). The AGC looks for a record year in construction across the country, sparked by a recovery in residential building and rising highway construction.

AGC convention in Dallas February 10-13 will see for the first time the incorporation of the former building, highway and heavy division meetings into general convention sessions, plus three special luncheons and a building construction workshop. In Atlantic City last month AGC executive director James D. Marshall told the Building and Construction Trade Department that "unless some means are found to stop the contribution of inflation of rising (construction) wage rates, we may be pricing ourselves out of a market for private investment in construction, alteration and repair."

Upsurge in apartment house construction is reported in Los Angeles and San Francisco. Scarcity of land and low vacancy rates of older buildings ar goading builders on.

Western pine industry is winding up a disappointing year. A preliminary estimate of lumber production during the fourth quarter is 1,720 million feet, down 12.9% from the same period of 1956. But indications are that in general the lumber industry, which started its slump ahead of some others, has been scraping bottom and may be about due for at least a mild pickup.

California's State Division of Architecture expects to begin construction on more than $170 million in state building projects this year, more than double the figure for the 1957 program. Northern California will spend $70½ million; southern California, $99½ million.

Exhibit of home construction products and materials costing some $100,000 will be provided by the Portland Home Builders Association at the Oregon Centennial Exposition and International Trade Fair, scheduled to start June 10, 1959. This is the first organization to announce plans to take major exhibit space at the show.

A study of the campus architectural style at the University of Washington, Seattle, has been proposed by the Board of Regents. A committee of architects would be asked to serve without compensation. The university's architecture, considered neo-Gothic for the most part, has long been a subject of controversy.

First all-steel movable school in the U.S. has been occupied in San Bernardino, Calif. Biggest advantage is its speed of erection, says C. K. Allen, city schools architect. It takes only 90 days from the time construction starts until it is ready for use by students.

Conference of Building Industry Associations has been formed in southern California by close to 30 trade groups. Secretary Ralph Hilton says the organization will be directed by a 12-man steering committee.

NEWS

20th-Century Fox plans mammoth transformation

Transformation of its West Los Angeles studio into a multimillion-dollar skyscraper apartment and business community has been announced by 20th Century-Fox. Plans call for groundbreaking in July, with all construction of the program—estimated to run upward to $225 million—to be completed in about seven years.

Outdoor sets on the 284-acre lot will be razed to make room for the erection of 18 20-floor apartment buildings, a 1,000-room hotel, one 30-story and three 20-story office buildings and assorted smaller structures. To be called Century City, the project is being developed by the architectural firm of Welton Becket & Associates. The studio's outdoor sets will be moved to a ranch near Malibu.

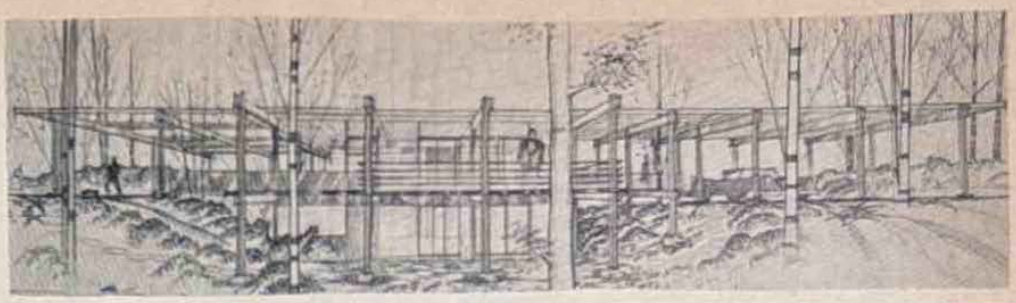
Importance of standards stressed at conference

"Wide acceptance of trade standards has helped the construction industry foster competitive bidding," Norman Hunter, Los Angeles architect and president of Construction Specifications Institute, told the Conference on Standards in San Francisco. "These standards also aid the industry in defining quality and performance of construction materials and processes."

Explaining the value of standards to the industry, Hunter said: "The usable standard is the simplest and most direct way for the specifier to transmit the desires and requirements of the design professional, the architect or the engineer to the constructors who put them into effect."

He cautioned, however, that standards should not be restrictive and all-inclusive to such a degree that the freedom and initiative of the individual is curtailed or the judgment of the professional negated.

Others who spoke at the construction specifications session of the conference, held in conjunction with the annual meeting of the American Standards Association, were J. P. Silvestri, chief engineer, Charles L. Harney Co., San Francisco; Rolf T. Retz, specification writer, State Division of Architecture, Sacramento; Albert LeRoy, LeRoy Construction Services, San Francisco; and Hal Colling, managing director, Pacific Coast Building Officials Conference, Los Angeles.



WINNING ENTRY reaches out in two levels on quiet ravine with minimum of excavation, grading and disturbance of natural growth. Upper living level has 1,310 sq. ft.; unfinished lower level is framed, has fireplace and roughed-in plumbing in place. At right James C. Chiarelli, president of Washington State Chapter, AIA, presents sculpture to architects James Greco and Carl A. Bystrom.

Seattle picks 1957 Home of the Month

A two-level residence sited in a wooded ravine won a sculptured award for the architects, James Greco and Carl A. Bystrom, and a $500 check for the owners, Mr. and Mrs. Carsten Lien, in Seattle's 1957 Home of the Month competition.

Thomas Paulsen, contractor, also was honored at a dinner in the New Washington Hotel January 9. The competition is sponsored by the Washington State Chapter, AIA, and the Seattle Times.

The architects commented that "in designing this home for a young couple of moderate means who are sympathetic to natural native surroundings, we developed a studio-like compactness in plan which was necessary within the budget limitations. Basic living spaces have been provided which will permit diverse activities as the basic family grows."

Other architects or firms whose designs were featured in 1957 were Robert E. Hugus (two entries), Arnold G. Gangnes, Ronald C. Campbell, Gena Zema, Kenneth Koehler, Ted La Course, Wortman & Wilkins, Detlie & Peck, A. O. Bumgardner and Lawrence & Hazen.

Jurors were three former AIA chapter presidents: John S. Detlie, Robert L. Durham and Lloyd J. Lovegren.

Mrs. Garnetha Moe, who served as chairman of the project for the past two years, has been succeeded by Miss Jane Hastings.

$47 million Civic Center-World Fair proposed for Seattle

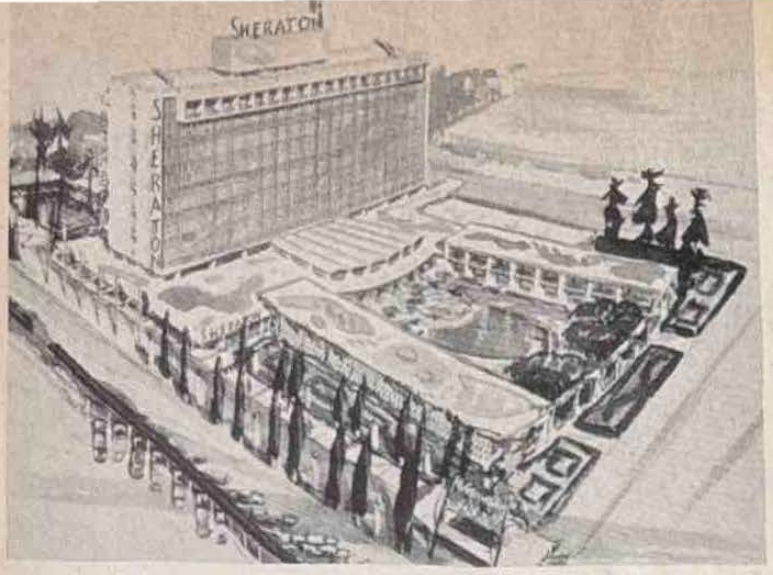
Seattle's plans for a $47 million Civic Center-World Fair project have been revealed by the seven-member design standards advisory board, headed by architect Perry Johanson.

The Civic Center Advisory Board has in general approved the recommendations, while the Washington State World Fair Commission is now studying the proposals; but the big question mark today is whether funds can be raised to carry out such an ambitious program. Original plans provided for $15 million, with the city and the state each voting $7½ million.

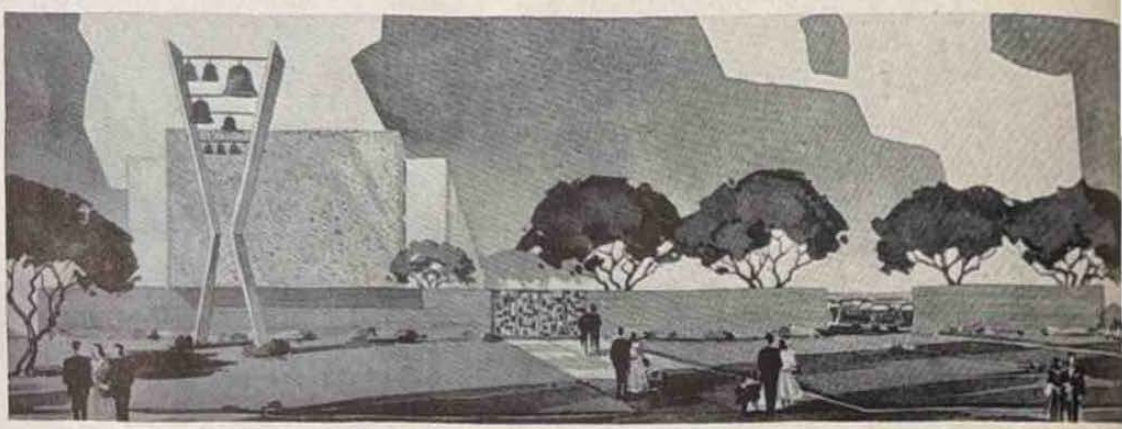
Here are the proposed permanent buildings to be erected on the Civic Center-World Fair site and estimated costs: exhibition hall—$12 million; pavilion seating 12,000 to 15,000—$7½ million; pleasure pier, with bridge or monorail connection to the exhibition hall—$8 million; concert hall involving reconstruction of the present Civic Auditorium to provide seating for 3,000—$2 million; and a small theater seating 1,000—$1½ million. Land acquision ($5 million), site development ($5,700,000) and miscellaneous costs and contingencies ($5,700,000) would bring the total to $47 million. The pavilion would replace the existing High School Memorial Stadium.

The design standards board has also recommended that the pavilion be the subject of an international architectural competition; that the small theater be limited to a Washington State competition; and that the concert hall and exhibition hall be directly commissioned by the governing bodies involved.

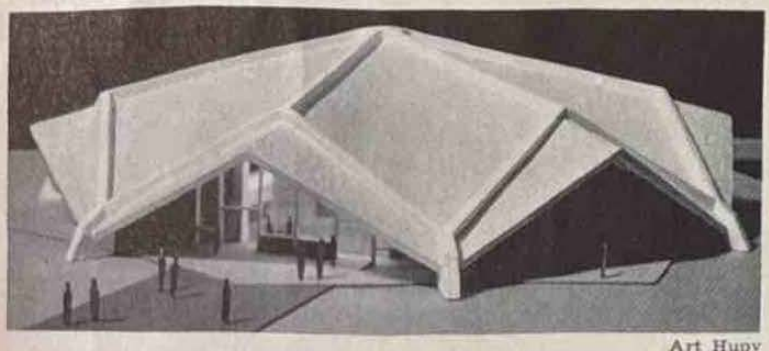
PROJECT PREVIEW



PORTLAND'S SHERATON HOTEL will be eight-story, 30[illegible]-room project, constructed to allow for future addition of 200 rooms. With swimming pool, specialty type restaurant, banquet facilities for 1,000 persons and parking for 300 cars, it will be located on four-block site facing Holladay Park and adjacent to new Lloyd Shopping Center. Construction is scheduled to begin early this year at estimated $5 million. Architects: Perry, Shaw, Hepburn & Dean, associated with Church, Newberry, Roehr & Schuette.

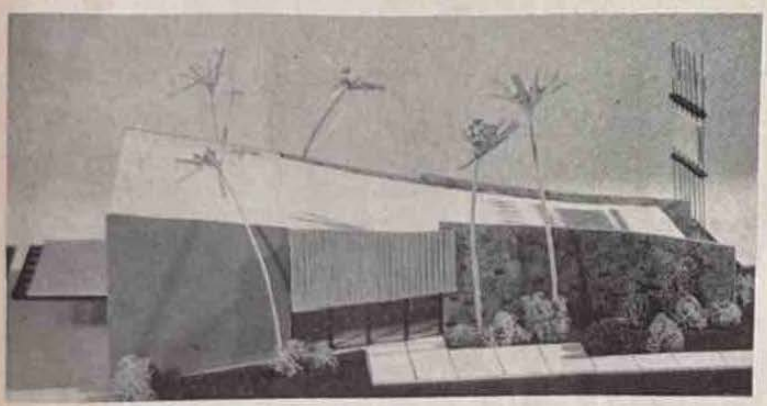


TWO NOTEWORTHY FEATURES of Holman Methodist Church project now nearing completion in Los Angeles are 1) 8-ft masonry wall broken only by gateway inset with varicolored transparencies giving effect of enormous stained glass window; and 2) dramatic tower of two concrete arms reaching skyward more than 50 ft. to support 10 giant bells. Church proper, which replaces existing structure and is first step in extended building program, has structural system of precast tilt-up concrete grilles. Seating 600 parishioners, it will be built for about $200,000. Architect: Kenneth N. Lind.



Art Hupy

ALL-PURPOSE BUILDING for high school on Mercer Island, Wash., will be roofed with thin shell concrete resting on seven small buttresses around perimeter. Walls under dome will be of masonry with full height glass panels at two principal entrances. Estimated to cost $140,000, shell will house assembly-cafeteria in center; stage, kitchen, teachers' room, storage and toilet facilities around sides and under lower portions of roof. Concealed fixtures will light roof inside and out. Architects: Bassetti & Morse.



FAN-SHAPED STRUCTURE to house Security First National Bank of San Diego, Clairemont Branch, is designed to adapt to natural flow of banking business. Executive and escrow offices are at narrow end; public entrances at center; cashiers' counters, business machines and vaults at wide end; drive-in entrance and windows and mezzanine for restrooms, employees' lounge and storage at rear. Structural frame building will have 6,500 sq. ft. Total investment will be $143,000. Architects: Richard George Wheeler & Associates.

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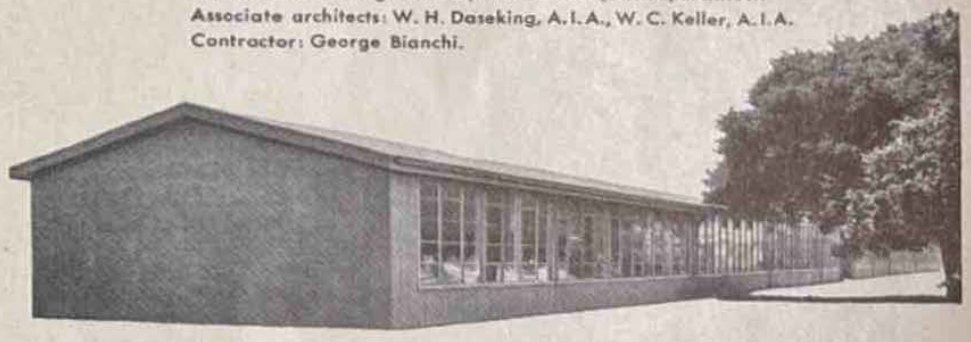
Menlo-Atherton High School, A. D. Janssen, A.I.A., architect.
Associate architects: W. H. Daseking, A.I.A., W. C. Keller, A.I.A.
Contractor: George Bianchi.



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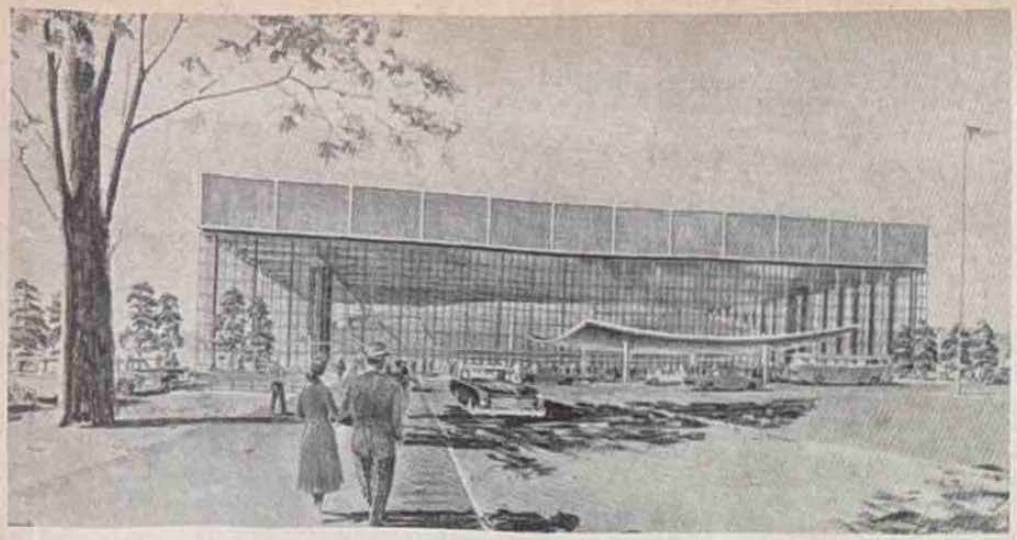
Seattle 4100 West Marginal Way, HOlly 3600 • Spokane East 41 Gray Avenue, Riverside 7-8063
Phoenix 2026 South 11th Avenue, ALpine 3-3178 • Salt Lake City 220 Greyhound Building, EMpire 3-7728
Dallas 528 Interurban Building, Riverside 1-5225



Portland's Exposition-Recreation Center

Most notable feature of the design by Skidmore, Owings & Merrill for Portland's $8 million Exposition Center is the solution to the problem of covering the 360-ft. square arena building—one selected after 19 others were planned, mocked up and discarded.

The roof's structural system is described by the consulting engineers on the project, Moffatt, Nichol & Taylor, as a "folded plate made up of a series of composite glued laminated wooden girders in triangular arrangement."

Employing the girders in this fashion, supported by two laminated wood jack trusses, grew out of consideration of an acoustical problem. When use of sound baffles placed in triangular shapes was proposed, the idea developed of making the structural elements themselves the baffles.

The concrete bowl of the arena, rising inside its exterior frame of glass panels supported by wood columns, will be 330 ft. in diameter. It will provide seating for 12,496 for basketball; 10,152 for hockey; 8,566 for stage events; 13,700 for boxing; 13,000 for pageants. Permanent type seating in the bowl will hold 8,120; bleachers and removable floor seating will make up the balance. Every seat will have an unobstructed view.

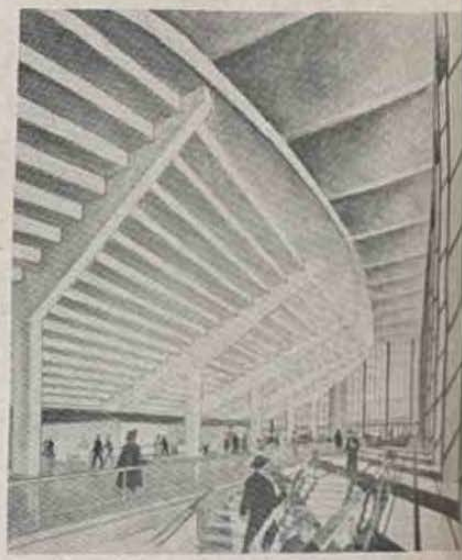
Meeting rooms on the arena floor level will accommodate 2,750 persons and central kitchen facilities will enable their use for banquets. Individual capacities will vary from 938 to 75 persons.

Plans for the center also will call for a 153,650-sq. ft. exhibition hall, a war memorial area and court and park facilities for 2,500 cars. Each of the areas is interconnected to permit joint or separate use.

The exhibition hall is recessed into the slope of the site to permit rooftop parking. Display space totals 153,650 sq. ft. and is capable of accomodating 750 booths, each 10x10 ft. Complete service and storage areas, concessions, exhibitors' facilities and restrooms are included in the plans.

As a visitor approaches the entrance pavilion, he will view the memorial court below him and to his right.

CURVED WOOD PAVILION emphasizes entrance to Portland's Exposition-Recreation Center, construction of which is expected to get underway this spring. Wood columns support glass exterior walls surrounding concrete arena bowl. Sketch below of war memorial court, off memorial room seating 250 persons, is merely architects' "suggestion." Piece of sculpture by Northwest artist is proposed for court.



EXHIBITION SPACE and covered parking will be located in foreground structure. Visitors to arena will have impressive view from concourse around concrete spectator bowl of downtown area across Willamette River. Note triangular wood sections of roof.

Building volume for year tops $2¼ billion

PERMITS

Building permit volume for 1957 in the five western states was $2,334,567,124, a decrease of $229,405,550 or 9% from 1956. The year's volume is the lowest since 1954. For comparison purposes here are the tallies for the past three years: $1956, $2,563,972,674; 1955, $2,500,425,102; and 1954, $2,227,227,495.

On a statewide basis, only Idaho has shown consistent gains the past few years. Totals for California, Oregon, Washington and Montana are below the boom years of 1956 and 1955.

A look at the records of individual reporting agencies shows that actually 40% of the 116 key agencies who participate in the survey recorded a higher dollar volume in 1957. Among the major agencies with increases over 1956 were Los Angeles, up $24½ million; Sacramento County, $6¼ million; San Bernardino County, $14 million; San Diego, $32 million; and San Francisco, $2¾ million. Los Angeles County dropped $118¼ million; Orange County, $44¾ million. Other major agencies with substantial decreases were Multnomah County, $9 million; Portland, $1½ million; King County, $3½ million; Seattle, $6½ million; and Spokane, $8 million.

The 116 agencies reported a total of $161,238,910 for the month of December, a drop of $10,891,402 from December 1956. California was down $8¼ million; Washington, $4 million. Oregon recorded a $85,745 increase; Montana was up $189,858; and Idaho, $191,423.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during December.

	Dwelling		Commercial & Industrial		Public	
Portland	39	$ 881,830	17	$ 190,660		
King Co.	261	2,744,280	39	553,330	3	$ 82,500
Seattle	311	2,236,739	210	1,156,082		
Tacoma	71	364,435	25	310,000		
Los Angeles Co.	1383	10,543,544	289	2,576,735	18	605,730
Orange Co.	119	1,892,485	23	266,588	1	1,200,000
Sacramento Co.	321	2,770,548	54	307,362	4	161,432

Building Permit Totals for 116 Western Agencies for December

CALIFORNIA	Dec. 1957	1957	1956
Alameda County	$ 798,175	$ 29,971,118	$ 34,146,120
Anaheim	2,333,921	32,449,790	37,221,834
Bakersfield	496,620	8,921,585	17,604,972
Burbank	995,873	12,023,753	13,370,713
Contra Costa County	1,923,102	29,014,401	42,417,998
Fresno	1,345,552	23,116,509	15,874,615
Fullerton	713,763	13,105,078	21,685,890
Glendale	1,721,778	17,693,043	18,226,764
Inglewood	947,900	11,807,218	10,658,278
Long Beach	4,095,210	49,706,083	67,884,575
Los Angeles	30,912,698	509,553,700	484,962,749
Los Angeles County	14,114,458	250,561,677	368,961,037
Oakland	2,912,525	44,904,795	39,011,893
Ontario	351,867	9,688,398	11,917,661
Orange County	2,964,040	60,872,808	105,625,789
Palo Alto	21,122,982	45,004,515	18,226,659
Pasadena	1,024,355	22,580,049	21,366,424
Pomona	345,783	18,773,952	21,073,510
Richmond	392,514	8,722,650	12,935,274
Riverside	539,491	12,606,296	25,863,260
Sacramento	2,537,050	24,026,035	35,462,172
Sacramento County	3,700,741	71,755,598	65,479,246
San Bernardino	3,580,708	23,222,559	18,586,410
San Bernardino County	3,391,129	82,702,713	96,753,861
San Diego	11,688,098	137,005,985	105,012,355
San Diego County	3,615,900	56,437,800	46,737,980
San Francisco	4,263,752	68,885,576	66,065,470
San Jose	3,008,585	57,845,289	56,553,190
San Mateo	460,648	16,110,409	12,335,481
San Mateo County	988,631	26,649,442	23,472,389
Santa Ana	321,157	20,701,856	26,546,087
Santa Monica	930,897	18,810,695	19,365,429
Stockton	1,721,051	18,463,041	12,192,545
Sunnyvale	4,752,900	30,635,271	21,633,147
Torrance	1,390,924	18,923,679	46,482,600
West Covina	1,248,752	16,470,936	22,731,385
TOTAL	$137,643,530	$1,899,724,302	$2,064,663,762

OREGON	Dec. 1957	1957	1956
Albany	$ 72,850	$ 1,731,525	$ 2,048,102
Astoria	4,300	602,768	1,742,330
Baker	45,215	888,387	395,583
Bend	91,950	1,810,604	1,103,326
Coos Bay	50,630	865,982	1,007,684
Corvallis	78,300	2,967,728	8,092,294
Eugene	303,990	6,871,009	8,285,285
Grants Pass	69,450	914,220	2,137,725
Gresham	1,200	1,188,637	911,760
Hillsboro	69,075	2,180,207	969,357
Klamath Falls	43,730	2,189,546	2,892,191
La Grande	2,150	1,540,685	489,119
Lane County	366,548	8,536,432	10,163,058
Medford	99,765	4,792,170	3,794,674
Multnomah County	1,129,080	24,344,175	33,472,776
North Bend	23,918	1,168,503	3,060,211
Oregon City	1,970	387,085	928,271
Pendleton	1,295,840	2,502,557	2,482,249
Portland	2,321,355	43,685,965	45,106,070
Roseburg	35,965	1,066,131	2,410,992
Salem	87,165	4,434,241	5,794,806
Springfield	21,420	1,685,936	1,283,920
The Dalles	24,865	567,334	1,374,322
TOTAL	$ 6,240,531	$116,921,827	$139,945,105

WASHINGTON	Dec. 1957	1957	1956
Aberdeen	$ 108,325	$ 1,581,807	$ 1,505,819
Anacortes	43,616	984,362	1,013,441
Auburn	141,400	2,538,230	1,128,450
Bellingham	243,797	3,775,074	4,931,479
Bremerton	47,330	1,605,500	1,896,051
Centralia	42,871	1,348,985	876,546
Chehalis	17,644	699,956	685,539
Clarkston	4,881	567,382	646,151
Ellensburg	79,955	555,439	463,066
Ephrata	53,480	1,121,102	1,239,308
Everett	233,275	4,625,437	3,929,316
Kelso	2,900	400,000	378,700
Kennewick	35,200	1,136,085	1,131,373
King County	3,400,010	68,134,347	71,825,382
Kirkland	5,100	854,265	724,750
Longview	251,510	3,097,303	3,697,658
Moses Lake	10,255	1,073,686	3,472,801
Olympia	351,010	3,193,970	2,868,084
Pasco	37,280	1,767,320	1,615,005
Pierce County	1,370,327	14,792,611	21,010,869
Port Angeles	40,525	529,418	1,591,826
Puyallup	62,800	1,134,719	1,648,833
Ritzville	Nil	572,350	293,475
Seattle	3,527,306	73,458,521	80,063,120
Shelton	24,500	848,452	834,975
Spokane	2,757,448	26,775,305	34,770,353
Spokane County	551,075	16,454,652	20,004,324
Sumner	30,000	829,015	313,185
Tacoma	1,179,829	19,543,988	21,376,406
Vancouver	356,306	6,449,021	6,856,483
Walla Walla	26,385	1,182,517	2,366,539
Wenatchee	44,810	3,162,963	2,236,967
Yakima	337,430	5,962,201	6,769,114
TOTAL	$ 15,418,580	$270,746,983	$305,175,408

MONTANA	Dec. 1957	1957	1956
Billings	$ 152,450	$ 4,088,650	$ 8,613,380
Bozeman	76,000	681,975	896,300
Butte	2,400	2,083,509	1,253,204
Glasgow	2,300	1,085,512	574,983
Glendive	3,800	623,954	858,069
Great Falls	288,018	7,861,480	7,747,695
Helena	63,500	2,685,868	3,974,875
Kalispell	900	948,172	1,528,301
Lewistown	28,500	306,145	707,146
Livingston	5,900	619,907	900,344
Miles City	46,625	374,554	891,435
Missoula	18,100	748,143	1,377,053
TOTAL	$ 688,493	$ 22,107,869	$ 29,322,785

IDAHO	Dec. 1957	1957	1956
Boise	$ 219,968	$ 4,591,670	$ 4,478,166
Caldwell	16,800	1,009,148	1,060,942*
Coeur d'Alene	60,350	1,056,785	2,418,885
Idaho Falls	398,000	6,737,612	5,337,203
Jerome	22,300	272,195	554,905
Lewiston	79,110	1,827,673	1,737,243
Nampa	192,298	1,322,707	1,900,480
Payette	200	268,485	300,985
Pocatello	106,650	5,574,398	3,265,478
Sandpoint	Nil	192,875	207,900
St. Maries	18,000	195,950	494,457
Twin Falls	125,100	2,016,845	3,108,970
TOTAL	$ 1,247,776	$ 25,066,143	$ 24,865,614
GRAND TOTAL	$161,238,910	$2,334,567,124	$2,563,972,674

*Figure represents only nine months.

POINTS OF VIEW

Three architects express themselves on the organic world and design; architecture as an art; school building costs

Organic architecture

Los Angeles architect Cornelius M. Deasy addressed the sixth annual conference of the Western Mountain Region, AIA, at Jackson Hole, Wyo.

The law of the organic world, a law nature observes with a dispassionate thoroughness, is that for each set of conditions of environment and purpose, there is a logical, even inevitable, form. Nature may protect the cactus, the sea urchin and the porcupine with similar barbs for a similar purpose, but the plant life of the northern forest is totally unlike the plants of the southern deserts. Each evolves its unique forms to suit its unique environment and purpose.

To say that this is a process that has implications for architecture is to emphasize the obvious. While recognizing the application of a universal technology it clearly indicates the need for a regional development of style. That one universal style could logically apply throughout the world or even in the varied regions of the United States is clearly inadmissible. Also dismissed as a serious or meaningful trend is the notion of universal space. The office building, the church, and the shopping center have different roles to play, different emotions to evoke. To say that they can all be solved in the same idiom is to admit that we are devoid of creative imagination.

The hotel on the Arizona desert has an entirely different environment challenge than a hotel in this mountain valley. To say that they are one problem is to concede that ours is a sterile society.

Organic architecture is not the architecture of curves; it is the architecture of logic plus. It is architecture that with a beautiful precision and economy evolves the forms that fit the need. Nature rarely uses glass to keep out the sun, never employs six legs where four will do and, so far as can be observed, is seldom influenced by the latest fashion on the concept of the annual model. Once her objectives of function are met she stops.

We can be sure that nature would not encase a steel frame in Grecian marble. We can be equally certain that she would swallow no nonsense about one universal style. She expresses structure only so far as it meets her needs, uses pattern and color for the contribution they make to the finished product.

In doing this she shows us much that we can directly use when we have the wit to understand what we see. How the cactus achieves rigid strength with a minimum of material, how the hornet creates superefficient insulation from digested wood pulp, how the bird eliminates bone weight without losing its swift strength. But if this is all we learn, we are missing the real lesson that is there to see. Not what nature does, but why, is the lesson of the organic world.

Having said this much about the logic of nature, it may seem strange to have to add that for us it is not enough. To follow a problem through logically does not necessarily lead to what we call architecture, perhaps because we do not have the capacity for being completely logical. Nevertheless, the quality of inspiration is what transforms the logical solution into memorable architecture.

Organic architecture rules out aping the cliches of the moment, bowing to the pronouncements of the professional prophets and designing for the approbation of our colleagues. It is a kind of architecture that requires each of us to be our own source of inspiration and that also offers each of us an opportunity to go as far as our individual talents can carry us.

To study the work of the leading architectural theorists of our time is a baffling experience. Certainly all of them cannot be right. Fortunately it is not necessary to guess which one is the Messiah. It is only necessary for each of us to rely on our own integrity to make a meaningful contribution to society.

'Architecture is a blindspot'

Frank Lloyd Wright spoke at an architectural vocational seminar for high school students during Chicago Dynamic Week October 27-November 2

The mother of art is architecture. Without an architecture of our own we have no soul of our own civilization. Now, of course, architecture is a blindspot of our life in America today. How many millions of students go to the university to be educated? They come away conditioned, not enlightened, and they know nothing of architecture although they have a department somewhere around—probably in the basement or maybe in some buildings where they had soldiers at one time; but architecture has not received and is not receiving now its due, if we mean by way of the word democracy a genuine culture which can become the soul of our civilization.

False economy in schools

Architect William W. Caudill of Bryan, Texas, expressed his views about the current school building picture during an interview in the New York office of National Citizens Council for Better Schools

"With unprecedented enrollments and construction at an all-time high, getting the fullest possible value in school plant facilities for each school building dollar expended has become an absolute necessity. At the same time, care must be taken to avoid false economy." That is the way in which William W. Caudill, nationally known school architect, summed up the current school construction picture.

He emphasized that reducing building costs is no trick, provided the community first decides what it wants for its schools and then is willing to pay for it. Some communities want and can afford bigger, more elaborate and more comprehensive school plants he said. As long as other phases of the educational program do not suffer in these communities, there is no reason why residents should be denied the type of schools they desire, he added, cautioning that it was entirely fallacious to depict a national trend as a result of these particular localities.

Stating that school building costs are a local issue, he said that expensive schools in New York don't jeopardize teachers' salaries on the West Coast and that an austere school in Mississippi saves no money in any other part of the country.

Contradicting the recent rash of national magazine articles which portray a nation of gold-plated schools, Caudill commented that architects and designers have been successful in recent years in the use of new construction materials and building methods which enable them to produce more attractive and more functional schools at a lower comparative cost. In general he agreed with U. S. Office of Education figures which show that

Continued on p. 33

Pacific
Architect
and Builder JANUARY 1958

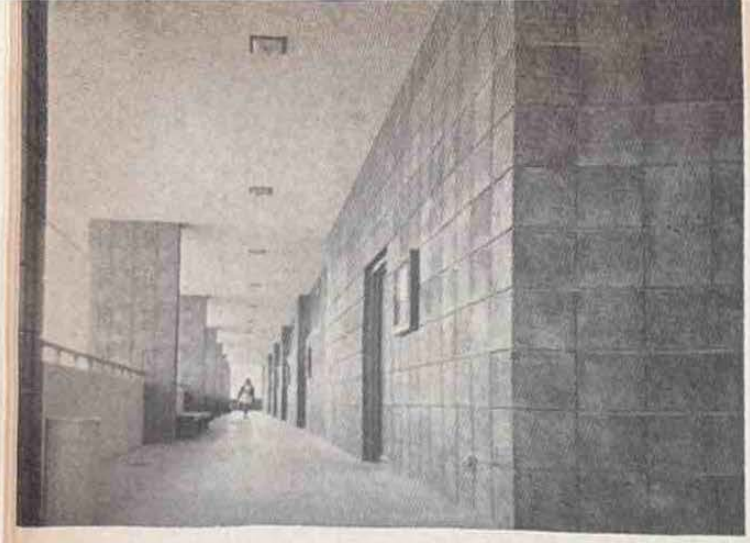
Erwin Lang photos

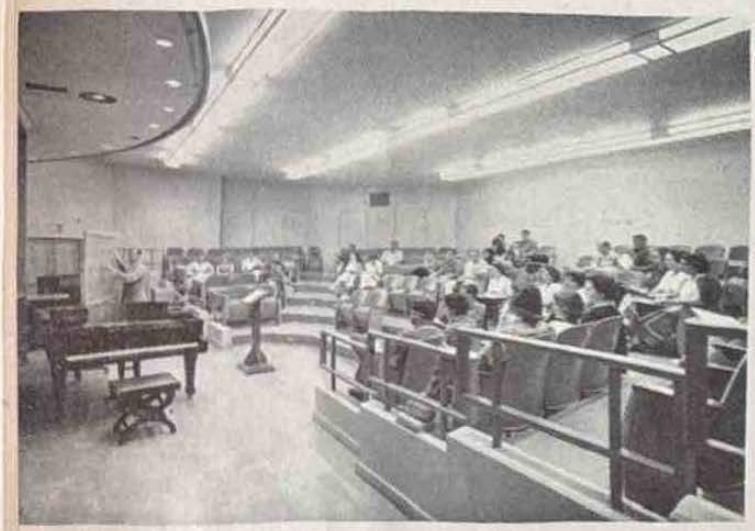
Residential scale for campus coherence

Music Classroom Building
Santa Barbara College
Goleta, California

PEREIRA & LUCKMAN
Architects-Engineers

CARL N. SWENSON
WILLIAMS & BURROUGHS
General Contractors





ALL ROOMS are reached from outside doors under covered porchways, eliminating interior corridors. Floors built up in semicircle provide tiers for musicians in choral and band rehearsal rooms.

MUSIC CLASSROOM BUILDING

FOURTH PERMANENT STRUCTURE erected in the ultima $22 million development of Santa Barbara College is L-shape with its 34,900 sq. ft. divided between a two-story build and a one-story wing. Main task facing the architects wa that the Music Classroom Building be consistent with the master plan of a campus for the University of Californ system.

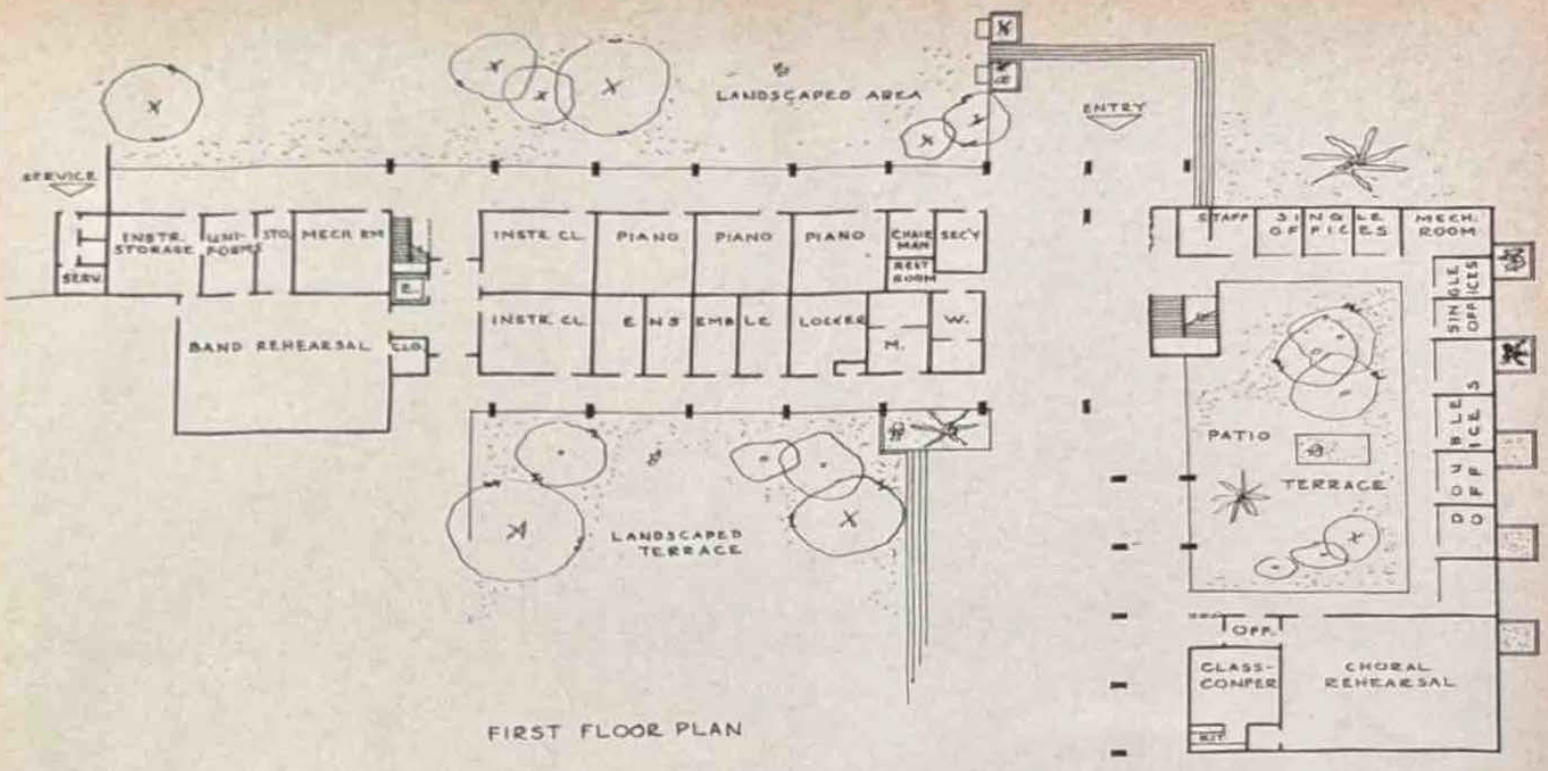
In adapting the indigenous Spanish architecture, the stric "mission" style was rejected as too frigid, formal and life less for contemporary conception of space and travel. How ever, the simple masses, plain surfaces, colonnades, deep over hang of the roofs and patios were retained to preserve the Spanish character. Special emphasis too was given to the achievement of a residential quality as opposed to the institu tional look—a quality maintained through a limit of two stories, use of exterior corridors and cantilevered stairways. A further consideration was that the design concept be appro priate to both building categories: the residential scale, i.e. the compartmented space of residence halls and classrooms and the large unbroken interiors (long span) of the gymna sium and auditorium.

To utilize the architectural vocabulary developed for al construction on the campus, the music building incorporate flat interlocking clay tile roofing, concrete spandrels and specially designed volcanic ash block. The 12-in. square uni has a corner quarter of its surface recessed ⅜ in.; the recessed portion in turn has an outside quarter of its surface recessed an additional ⅜ in., forming the completed design. Th block, which can also be perforated, is a rich cinnamon colo and is waterproofed with a silicone treatment. Walls ar sandblasted to give a textured finish which will require n painting or upkeep.

The building is designed so that it will eventually becom the eastern wing of a proposed auditorium and will be pa of an arts-music-speech center for the campus. In additio to classrooms, the one-story wing consists of department and faculty offices. At the end of the wing is a choral re hearsal room seating 136 and surrounding a sunken patio are where outdoor musical events can be presented. The secon floor is devoted to classrooms, 32 individual practice room and a listening room with control room attached.

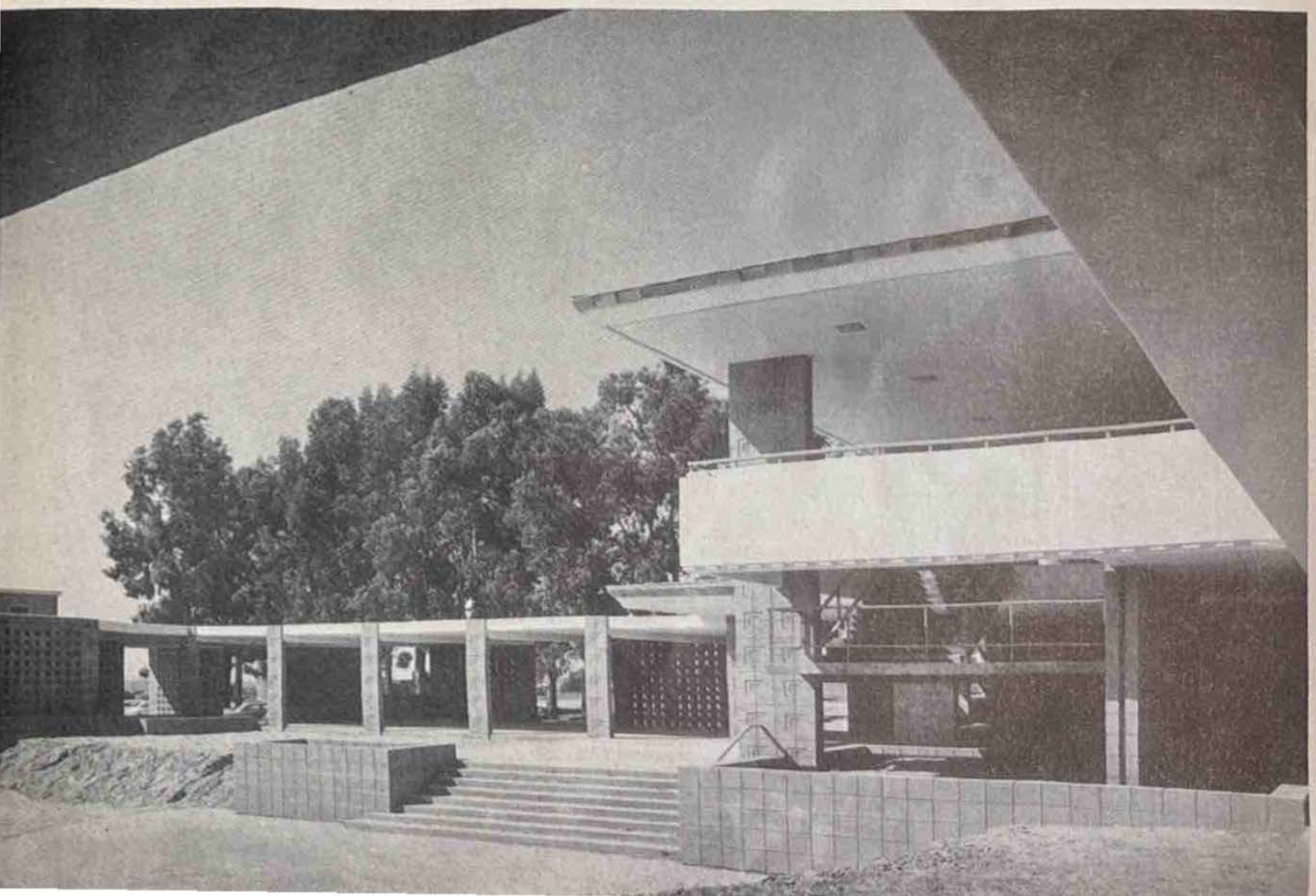
Otto H. Kilian was project manager and James H. Langeheim in charge of design for the architects; Eric Armstron handled landscaping.

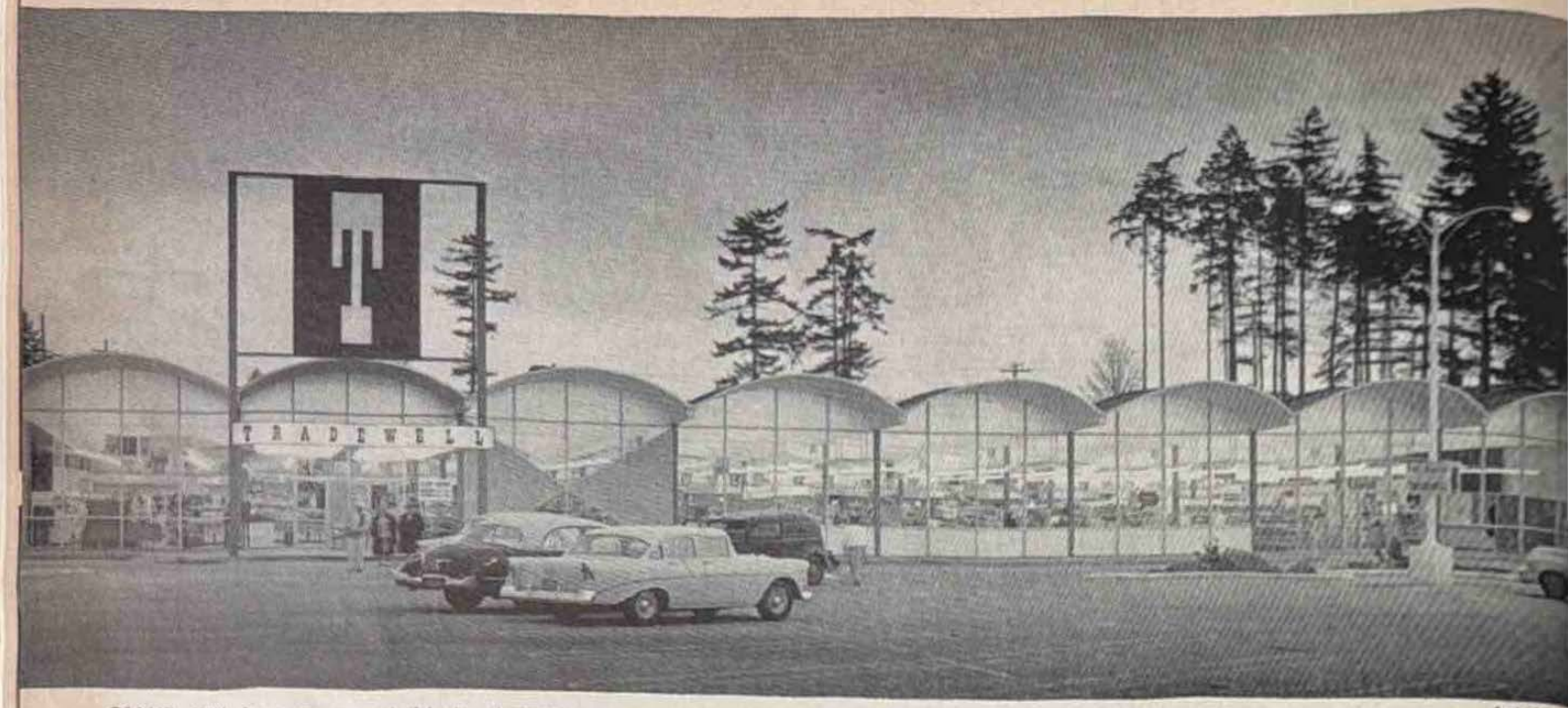
PERFORATED SCREENS along colonnades are important design feature of wind-swept ocean campus.



FIRST FLOOR PLAN

EXTERIOR COLORS range from walnut cream of spandrels, facias and eave soffits through cinnamon of ash block to terra cotta of hard-burned clay roof tiles. English red quarry tile is used in hall and foyer areas. Walkways are of light biege and terra cotta squares.





GIANT "T" in orange and black plexiglass mounted on two steel columns will identify all future Tradewell markets.

Art Hup

In the Northwest

Two prototyp

Tradewell Stores, Inc.
Burien, Washington

•

WELTON BECKET & ASSOCIATES
Architects-Engineers

RUSHMORE & WOODMAN
Associate Architects

JENTOFT & FORBES
General Contractors

TRADEWELL STORES, INC., is setting the design pace for supermarkets in the Seattle area with a thin shell concrete vaulted roof, full glass front and 12-ft. overhang to provide a covered walkway and loading area. The cylindrical shells, which span 20 ft. between columns and whose thickness tapers from 3½ to 2½ in., not only help "sell" the store chain, but offer an expandable, economical type of structure.

First to be completed in an extensive five-year building and remodeling program which will eventually involve about 30 markets was the Burien unit, built at a cost of $275,428 or $10.50 per square foot. The 160x140-ft. store has a sales area of 15,700 sq. ft.; a 1,200-sq. ft. mezzanine for mechanical equipment and an employee's lounge; and the remaining floor area for storage, offices and work space.

A new trademark rises above the building on two steel columns flanking a steel canopied market entrance. The giant plexiglass "T" in orange and black will be the featured monogram on all future Tradewell markets, signing, merchandising and packaging.

Other exterior features are sidewalls of glass, panels of river-run rock and high windows over concrete block walls and a back wall combining concrete block with stud and plaster.

On cold days customers step into a 20-ft. strip of warm air controlled by radiant heating installed in the floor across the store front. There are no turnstiles and a solid railing separates those leaving and entering.

Inside, controlled temperatures provide the proper amount of heating and ventilating, while maintaining ideal temperatures to keep foods fresh and clean.

Floors throughout the selling area are of terrazzo. Interior lighting is fluorescent, with fixtures hung on curved cantilevered steel arms which in turn are hung from the concrete roof beams where the vaults join.

At the center of the 10 checkstands is a newly designed automatic, hydraulic box lift which holds a continuous supply of packing boxes. Market sections are easily identified with hexagonal mobiles suspended from the ceiling. Specific food islands are labeled by number and a list of items on four-winged standards can be read from any part of the store.

A lot which accomodates 262 autos, has been arranged for wide, easy angle parking and is lighted at night.

THREE-DIMENSIONAL plastic sign is attached to 9-ft. brow or overhang, sloping up and out from front of structure for its entire length.

f supermarkets In northern California

Purity Stores, Ltd.
Palo Alto, California

•

HARRY WEESE
Architect

HAROLD ENGLE
Structural Engineer

YOUNGER BROS., INC.
General Contractors

PURITY STORES, LTD., which headquarters in San Leandro and operates about 100 supermarkets throughout northern California, has pioneered in the design and construction of "showcase" stores. Executives, in taking their company name to heart, are constantly striving to achieve natural light and a sunny atmosphere in all of the units.

The client's long-range expansion and modernization program has seen markets completed which feature a four-way dome and three facades essentially of glass. The barrel type construction allows for an uncluttered and spacious interior as well as fresh air and sunlight. Building costs have been kept well under $10 a square foot, excluding fixtures. Normally it takes about four months to erect a store ranging in floor area from 14,700 to 20,400 sq. ft.

The Palo Alto unit is the largest to date, measuring 120x170 ft. It is flat roofed and sheathed with fir plywood, reused after first having been employed as framing for the pouring of 8-in. concrete walls. In the wall forming, the plywood panels were secured with 2x4s on 12-in. centers to avoid waviness and to withstand the stress of the vibrators.

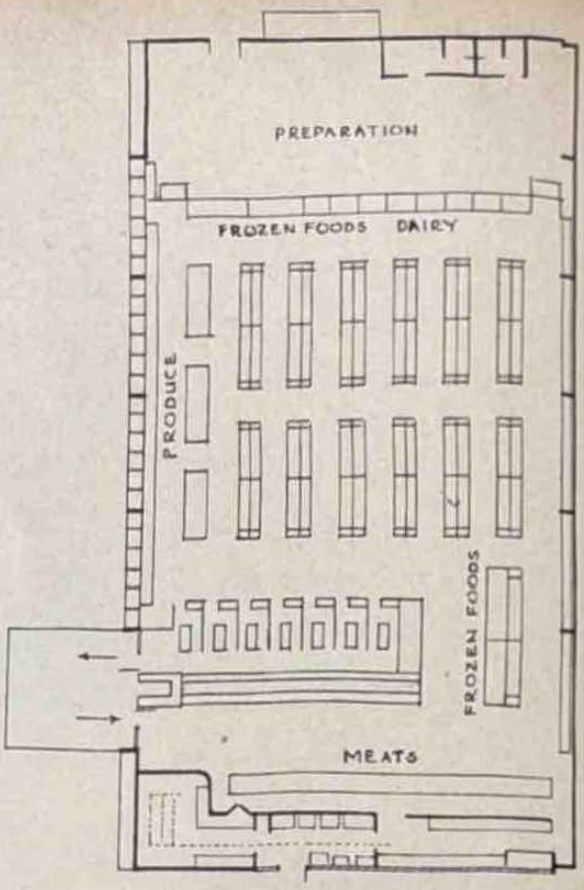
Each of the four glazed enclosures which cover the 76-sq. ft. central area has a 12-ft. rise over the flat portion of the roof. These rises were formed of wide flange sections, supported on four round steel columns filled with concrete and tapering from 15 in. at the top to 24 in. at the base. The columns, made of ⅝-in. steel, were imbedded in concrete to make the roof skeleton earthquake resistant. Two long diagonal arches were triple hinged to permit flexing in two right angle planes.

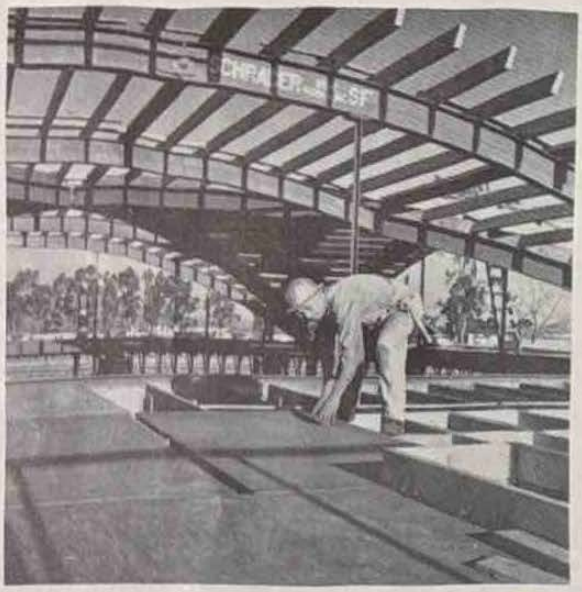
Fir plywood was nailed to 3x8-in. wood joists on 24-in. centers over the curved portion of the roof. The A-face was left exposed because it forms the finished ceiling of the interior; on the flat sections of the roof, the reused plywood was not left exposed.

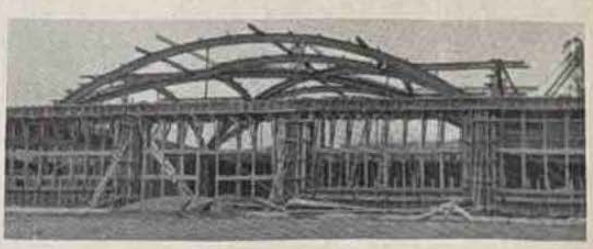
DISPLAY FIXTURES use fir plywood as basic material. All are fabricated in contractor's shop.

SUPERMARKET PROTOTYPE

Fir plywood—¼-in. with the A-side out—also was used extensively as a finish paneling for restrooms and offices. For rough sheathing on the inside walls, as well as in the storage areas, varying thicknesses were employed. All of the supermarket's non-refrigerated store fixtures were fabricated in the contractor's shop and here again fir plywood served as the basic material. These fixtures include grocery gondolas, dump bins, island ends, checkstands, work tables, bins built around the columns and hundreds of linear feet of shelving.

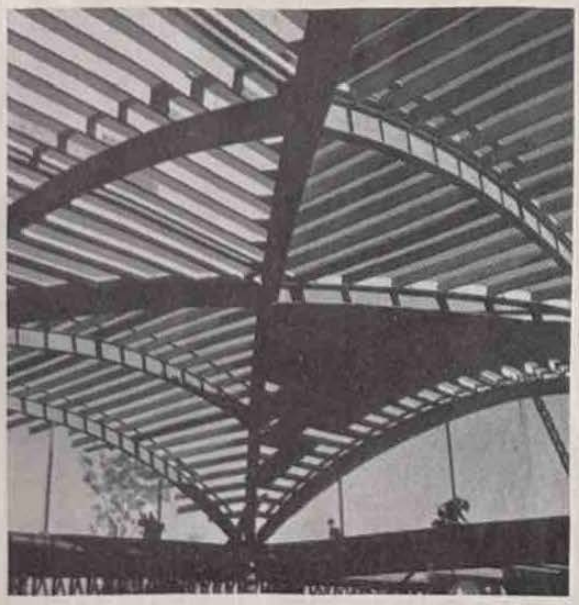






DOME PORTION at left shows application of plywood panels to roof. Joists are 3x8s on 24-in. centers. Above, steel bracing goes up. Roof edges are left protruding during construction and quickly cut off with power saw. Below, view of grained vaulted roof beams before and after sheathing was applied.

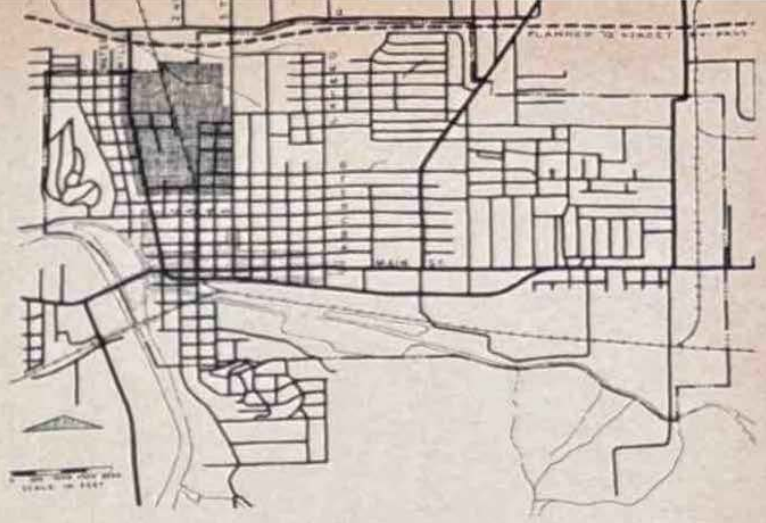
Phil Palmer



There's been much more talk than action in the field of urban renewal, but here's an exception. Springfield is one of the nation's smallest cities to have received approval and financing from HHFA for preliminary planning of its renewal project, a major achievement now in process. As a community effort and expression of a city's growing respect for itself and its future, the Springfield example has significance for our many smaller western towns.

by NORMAN J. JOHNSTON

Action for small town renewal



FOR WESTERNERS, possibly accustomed to associating blight, decay and slums with large cities, all preferably located somewhere east of the Rockies, the evidence of such deterioration in a small West Coast city may come as something of a surprise. Yet western cities are increasingly aware that they too share in the costly social and economic consequences of their physical decline and that these costs are not confined to the precincts of the large city.

So for both of these reasons a process at work in Springfield, Ore., has special significance deserving the attention of our cities, both large and small. It is a field demonstration of what steps are now available to combat existing and future deterioration and how to utilize them in a city whose size makes it more characteristic of the western pattern than some of the more heavily concentrated and complex centers of the East, which also are participating in the renewal program.

Springfield, located just across the Willamette River to the east of Eugene, has a population of some 13,250 persons. Though founded in 1848, its development, largely based on forest products, always had been somewhat in the shadow of its more sturdy neighbor. Not until the '40s and particularly following the close of World War II had it shown any considerable growth, but a growth that, when it came, was to be a heady experience, expanding the town in a 10-year (1940-50) period from 3,805 to 10,807, largely unguided by any official or unofficial planning action.

Springfield's Problem Area

An early area of industrial growth in Springfield had been located in what is now the northwest section of the city. Through here passes a branch line of the Southern Pacific Railroad with a number of industries located by it for service. The principal area of industrial growth, however, found more suitable location on the Southern Pacific's main line at the city's south edge, and the boomtown industrial expansion of the '40s accelerated this growth pattern. At the same time the residential section moved outward to the east and north to cut off this original industrial growth and make of it an island in an otherwise residential district.

Because of this growth trend, as well as the pattern of wind directions, in 1947 Springfield's first comprehensive zoning ordinance recognized the more suitable assignment of industry to the main line with residential zoning to the north, including the old branch line industries. The ordinance therefore granted them a noncomforming use status in a residential zone. The residences in turn were protected from the main line industrial zone to the south by a buffer strip of commercial zoning. Springfield's central business district along Main Street.

The result of this process had been that gradually most of the industries originally located on the branch line shut down or moved to a more suitable industrial area. The remains consisted of a mixture of residences of varying levels of construction and maintenance a few industries (lumber company, log loading yard, and storage and repair yard for heavy equipment) and several large and small tracts of vacant land whose development had been discouraged by lack of access or the negative influences of existing land uses.

Into this picture of neglect and decline there was in 1950 introduced a new factor when the Springfield School District, largely motivated by the attractions of adequate space and cheap land, purchased a site in the area's northeast corner for a new grade school to serve the now dominantly residential uses of this part of the city. But inadequacies of thoroughfares between the school site and residences to the west served to dramatize the area's generally incomplete circulation system that had been allowed to develop through the years, the extra mileage school busses turned each week insuring a continuing awareness among school administrators of existing conditions.

This then brings together the several elements which made up Springfield's problem area and their consequences: conflicting land uses, vacant and untended land, a poor street system, unpaved streets and side-

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Architect Norman J. Johnston, assistant professor of architecture at the University of Oregon, Eugene, not only has watched the Springfield program for some time and attended community meetings concerned with it, but was employed the past summer in Lane County's planning office.

walks, abandoned mills and neglected residences, and decreasing land and property values with a consequent low tax return to the city.

Pressures for Rezoning

This luxury of neglect, indulged in by both the area's residents and the rest of the city, was found in 1953 to be one they could not much longer afford. For it was in that year that moves were begun by the owners of some of the industrial uses to rezone their property for industry as well as to extend their areas of noncomforming use beyond original limits. Remaining at first in the rumor stage, in August 1954 action was required of the Springfield City Planning Commission when it received a formal request for rezoning from a land owner to permit use of his land for warehouse construction—land which, incidentally, immediately adjoined that on which the school board had built its new elementary school. Majority action on the petition was that it be denied, a decision based on the need for adequate protection for both residential properties and the school district's investment from such an encroachment and reaffirmation of the original zoning decision that the best use of the area's land was for residential purposes.

This same process of petition and denial before the planning commission was again repeated in March 1955 and this time the city council was asked to override the planning commission's second denial. It refused to do so, but called for a public hearing to review the circumstances and hear public reaction to them. This hearing proved to be an exciting one with an overflow attendance expressing mostly resistance to the rezoning. The school board recommended denial of the petition, but main support for both council and planning commission action may be credited to the PTA, which the planning commission had contacted and whose members recognized the implications of the petition and, if granted, its effects upon the area's homes, children and the school. They therefore worked toward creating an expression of this viewpoint within the rest of the area and, in the face of overwhelming support for denial, existing zoning was preserved.

A Proposal for Positive Action

So far the victory was a negative one. The status quo remained, but with all its shortcomings, inconveniences and potentials for continuing deterioration and repeated future requests for rezoning action. But in November 1955 a suggestion was made to the planning commission that held the promise of positive action when Howard W. Buford, planning consultant for the Central Lane County Planning Commission (of which Springfield is a contributing member), proposed that the city initiate a request for funds from the federal government under terms of the 1954 Housing Act for an urban renewal project in the problem area. As the outcome of a public meeting to explain the implications and possibilities of urban renewal, the school board and Willamalane Park Board (which owns and operates park and playground facilities for the Springfield area) expressed reserved interest, but both the city council and the Springfield Planning Commission indorsed the idea 100%, and the CLCPC staff began the initial work leading to a request for funds for planning assistance.

This work in itself involved time and the resolving of important problems. There was the difficulty of both county and city jurisdiction within the affected area (ultimately it was confined to that lying within the Springfield city limits) and selection of an agency to administer and execute the project and meet the requirements of the Housing and Home Finance Agency, which is the federal agency administering the program at the national level (the Lane County Housing Authority agreed to act as that agency). But after a year of initial effort the application in December 1956 was approved and a $65,975 grant was made by HHFA for financing the preliminary planning of Springfield's Third Street Urban Renewal Project, giving the city the distinction of being one of the smallest in the nation as well as the first city outside Portland in the state of Oregon to receive such aid.

Following this approval the housing authority appointed a planning coordinator for the survey (Wesley Kvarsten, a planner on the CLCPC staff, since replaced by Robert W. Maffin, following Kvarsten's resignation last July) and signed a contract with the CLCPC to do the project's basic physical planning work.

At the present time the preliminary report on the land planning of the project, a product of the first half of the year's preliminary planning period, has been submitted to HHFA for approval, and work by the housing authority staff under the direction of Robert Campbell, its executive director, is well on the way toward augmenting that report with detailed plans for property acquisition, demolition, land disposal, financing, property management, etc. These are the "working drawings" of an urban renewal project, the basis for its actual realization once funds have been granted by the federal government.

The Project's Land Planning

The original problem area consisted of around 66 acres, but this has since been expanded to include adjoining troubled areas so that today's project includes about 161 acres containing 280 separate land parcels. Of its existing structures 45% of the houses have been declared to be substandard and 18 of the 22 industrial structures judged a blighting influence on adjacent residences.

Replanning has been based on a two-phase attack: 1) acquisition and complete clearance and replatting of the most seriously blighted core of about 60 acres containing 79 houses—the redevelopment phase; and 2) the rehabilitation phase for properties outside the clearance area with provisions for new public improvements including street paving and lighting, sidewalks, and sanitary and storm sewers, coupled with a campaign for voluntary property betterments through public awareness as well as application of new codes and ordinances that are a requirement for obtaining project approval for HHFA. Redevelopment and rehabilitation within the project area will be the special responsibility of the housing authority, while the city will assume leadership for realizing rehabilitation goals in the rest of Springfield.

The land plan, still in a preliminary form, proposes important changes in the area's existing land uses. Its goal is a revitalized residential section of the city, suitably served by public improvements and services to insure its continuing residential desirability. All nonconforming uses are of course eliminated in the plan, but certain additional land uses have been made. Residential land in Springfield, as well as in the project area, has been predominantly single-family to the neglect of multiple-family needs, and so appropriate acreage has been designated for such multiple-family development as low-density garden apartments. Their locations are well related to proposed major thoroughfares, schools and a park. When the project has arrived at its planned development goal it will have a total of 335 dwelling units.

Another addition to the land use pattern is classified "semi-public" and there the planners have anticipat

evelopment for such uses as churches r fraternal buildings.

An important element of public ervice to residences is adequate pub-ic parks and the present plan includes park of approximately five acres. Since the Willamalane Park Board will be the agency to develop this park, the planning staff has worked with the park board to arrive at the ize and location that best suits the oard's financial abilities as well as ts responsibilities to the rest of the ark district; alterations of earlier lans have been made to arrive at the resent proposal.

School ownership in the project area emains the same except for minor hanges due to thoroughfare pro-osals. Following the construction of the elementary school, the school oard acquired additional property just to its south on which it opened this fall a new junior high school.

Circulation within and through the area had always been inconvenient, one of the factors retarding its normal development. A new street plan has therefore been an important consider-ation in redevelopment planning. The major framework around which cir-culation has been planned is the ade-quate provision for both east-west traffic by extending K Street west to L and, more significantly, north-south traffic connecting the main business district with the projected Q Street bypass, being built as a separate highway commision project just to the north of the city limits. This route has been coordinated with the existing branch line alignment by paralleling it with a one-way route on either side to form a limited access arterial. This permits minimum interference with the potentials of the project plan as well as relieves Mill Street of some of its present traffic loads for which it is poorly suited.

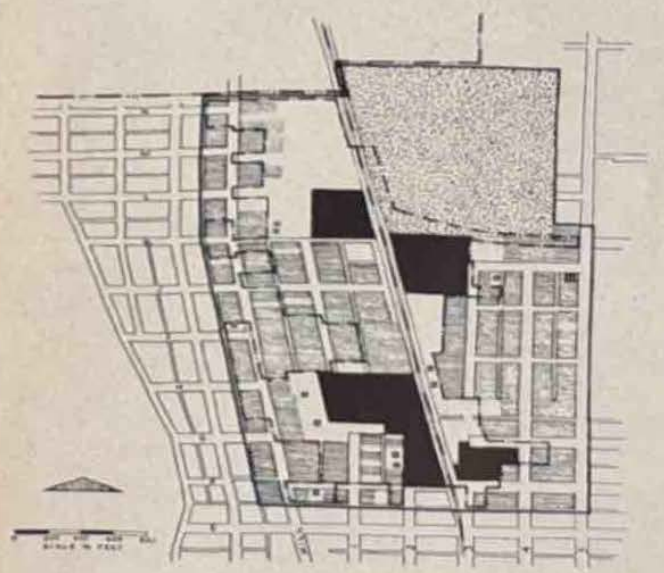
The school board was at first somewhat disturbed by these thoroughfare proposals since their property was affected and they felt they had not been properly informed prior to review of the proposals by the planning commission. However subsequently the board learned its ownership totaling 31 acres in the project area would lose only 2.4 acres and saw relief for present access difficulties, so it therefore indorsed the plan.

This then summarizes the implications of the proposed project plan, still in a preliminary stage, but in general indicating the kind of thinking and direction that has been reviewed and approved by the planning commission and school and park boards. Springfield's project is one of the few renewal efforts in the country involving both redevelopment (40%) and rehabilitation (60%) and for this reason has attracted special attention as well as presenting complications in its design and administration planning.

The Workable Program

By the terms of the 1954 Housing Act under which Springfield's urban renewal project planning is operating, its plan does not involve just the future of the project area itself, but the rest of the city as well. The weakness of earlier renewal legislation was that as fast as one area might be redeveloped, existing conditions, left to themselves, would bring on decay in other areas of the city and in fact jeopardize the future of the very project that at such a cost had received renewal treatment. For this reason the 1954 Housing Act introduced the concept of the "workable program" for the purpose of stimulating local thinking and practices that will be some guarantee of safeguard for the investment a completed urban renewal project represents as well as a deterent to the need for additional projects in the future in parts of the city not now in trouble. So while work on the physical planning, design and administration of

Continued on p. 32



PROJECT AREA EXISTING LAND USES

RESIDENTIAL
SCHOOL DISTRICT
COMMERCIAL
INDUSTRIAL
VACANT
GARAGE, SHED, OR OUTBUILDING
PROJECT AREA BOUNDARY
CLEARANCE AREA BOUNDARY
SPRINGFIELD CITY LIMITS

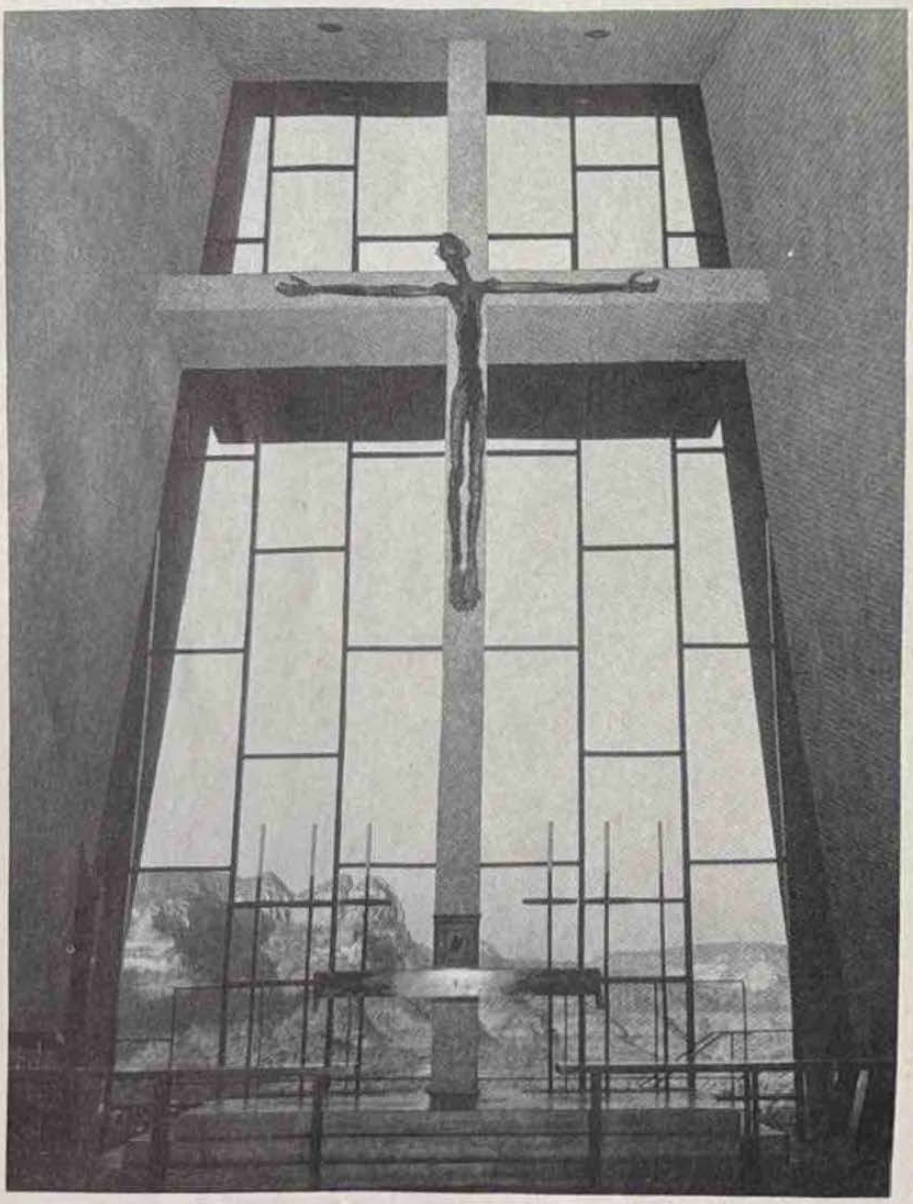
PROPOSED · PROJECT · PLAN

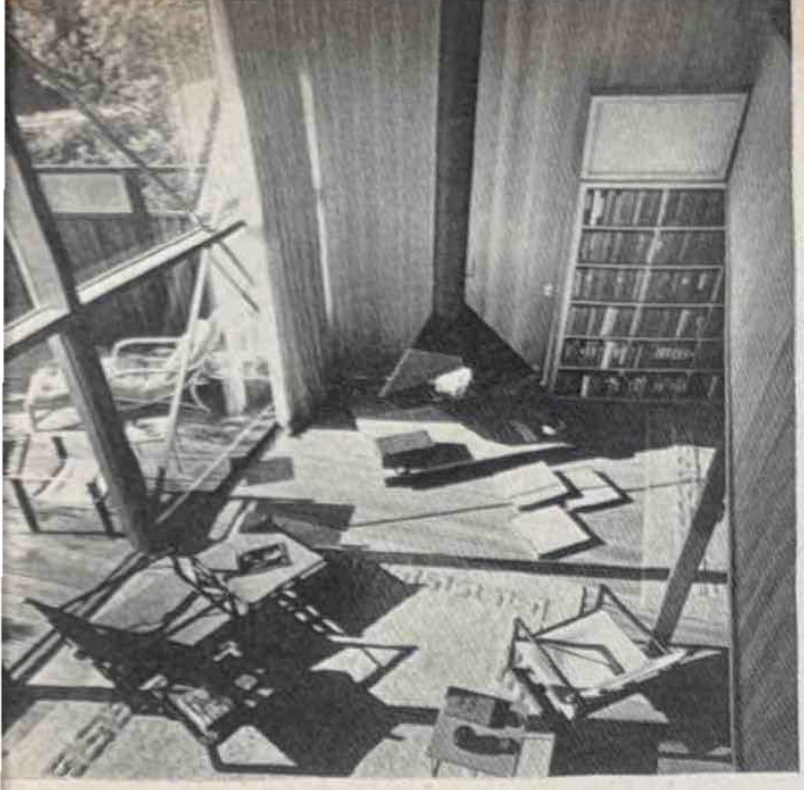
SINGLE-FAMILY RESIDENCE
MULTIPLE-FAMILY RESIDENCE
SEMI-PUBLIC
PARK
SCHOOL DISTRICT
PROJECT AREA BOUNDARY
SPRINGFIELD CITY LIMITS

Art integration: four citations

ART AND ITS PLACE IN ARCHITECTURE got more than the usual amount of recognition when five northern California chapters in connection with the AIA Centennial sponsored the most comprehensive design competition ever undertaken in that area. Although one of the jurors, architectural sculptor Harry Bertoia, commented that there were "very few entries that show a relationship of the arts to architecture," it is significant that four of the premiated projects—a church, a residence and two schools—also won citations for art integration. This does not mean that the pieces selected are necessarily great works of art per se; but perhaps the situation was best summed up by juror Pietro Belluschi who, in referring to one of the school murals, said: "This is not, of course, the greatest art, but it is very useful and gay. We must consider the environment we are creating for our children. There is a trend toward more variety . . . more consideration for the children and the atmosphere in which they spend so much time."

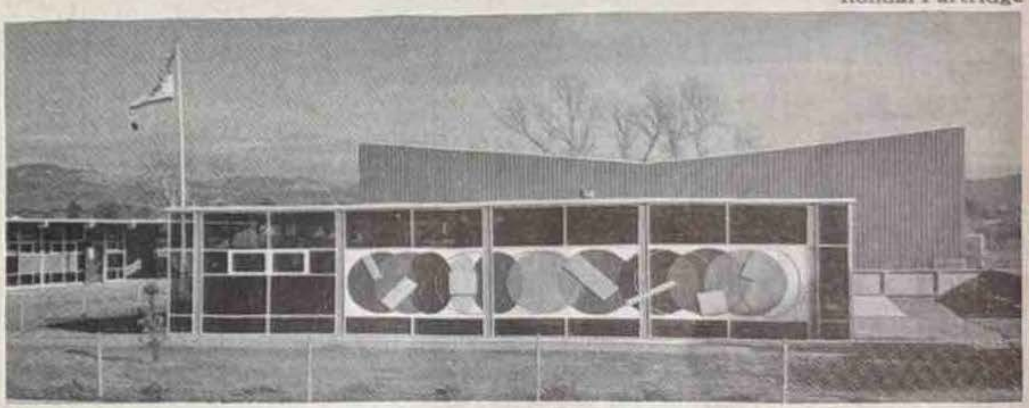
CITATION FOR SCULPTURE FOR CORPUS to Keith Munroe. Chapel of the Holy Cross, Sedona, Ariz., Anshen & Allen, architects. Philip D. Greene





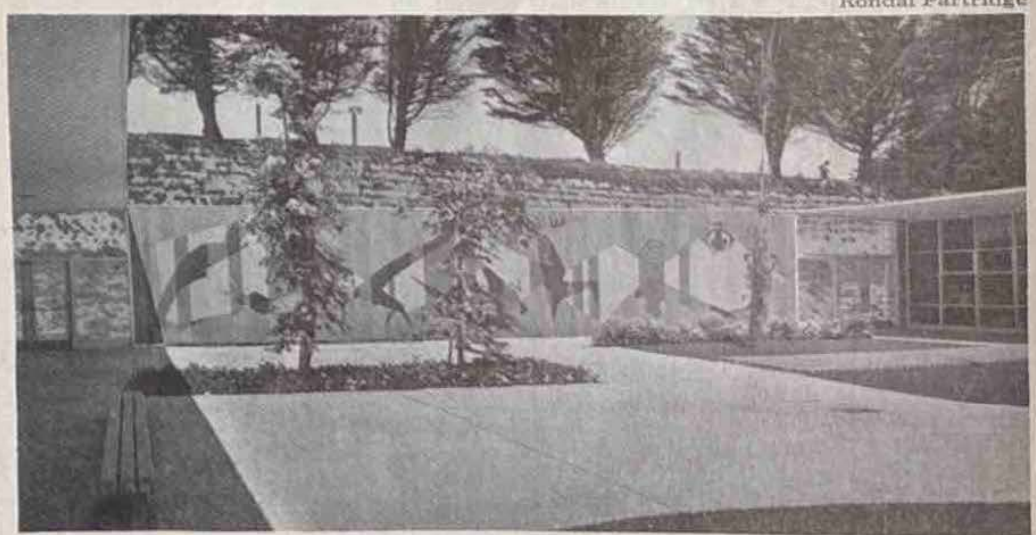
CITATION FOR SCULPTURE FOR FIREPLACE DESIGN to Keith Munroe. Miss Caroline Schrodes residence, Sausalito, Calif.; Marquis & Stoller, architects.

Rondal Partridge



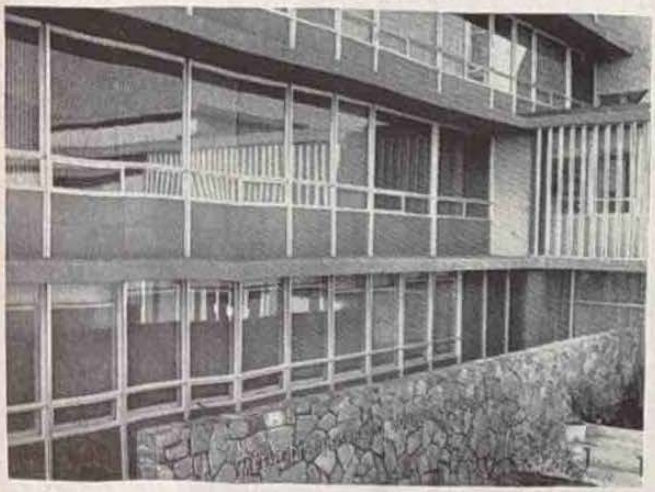
CITATION FOR ART INTEGRATION to Ann Knorr. Sonoma Elementary School, Sonoma, Calif.; Mario Ciampi, architect.

Rondal Partridge



CITATION FOR ART INTEGRATION to Ann Knorr. Olympia Primary School, Daly City, Calif.; Mario Ciampi, architect.

Photos courtesy of Gladding, McBean &



BUILDING METHODS and MATERIALS

HOSPITAL PROJECT IN ARCADIA, CALIF., is first use of prefabric ceramic veneer curtain wall which promises to reduce construc costs where method is employed. In closup view of entrance, note f full height panels, 4x10 ft., at lower right corner of photo, uti to enclose portion of main lobby.

Ceramic veneer panel joins curtain wall parade

A PREFABRICATED ceramic veneer curtain wall is available for national use in institutional and commercial type construction as a result of successful pioneering at the just completed Methodist Hospital of Southern California at Arcadia. The project, designed by architects Neptune & Thomas and constructed by Fred J. Twaits Co., was one of five which received top recognition in the Centennial Honor Awards program of the Pasadena Chapter, AIA.

Use of the high fired, glazed masonry facing material in curtain wall construction eliminates the need for a backup wall and thus reduces the required wall thickness and the weight of the exterior wall, which in turn cuts labor time and saves money.

A ceramic veneer precast panel, such as was used at the Arcadia hospital (trademarked CV Panelwall), can be placed in the wall at little more than the installed price of the ceramic veneer facing alone, an approximate cost of $4.50 to $5 per square foot in the Los Angeles or San Francisco area.

The panel is fabricated with lightweight aggregate concrete backing and is 2¼ to 3 in. thick, in units up to 30 sq. ft. A thinner lightweight panel also has been developed, which is 1½ to 1¾ in. thick, for use in window wall construction.

The panel, developed after considerable research by Gladding, McBean & Co. and the Architectural Terra Cotta Institute, is faced with 1-in. thick ceramic veneer, a de-aired extruded precisely finished clay body with an impervious finish.

In the case of the Arcadia project, a satisfactory U-factor to meet rigid air conditioning requirements was obtained by adding 1 in. of vermiculite plaster to the back of the spandrel wall after installation. This insulation covered the metal mullions as well as the masonry panel, thereby eliminating any through-wall metal connection.

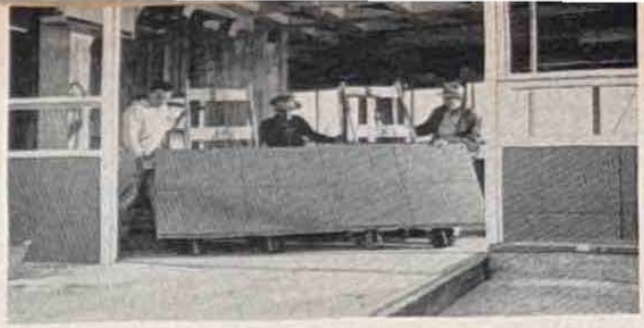
Fabrication

No particular problem was encountered in casting the panels. In regard to anchoring connections, strap anchors were attached to the panel reinforcing mesh and embedded in the concrete backing. These were shaped to project at the ends of the panels for attachment to the back of the aluminum mullions. The pan were then set on the concrete fl slab in a cement mortar bed and w bolted to the back of the alumin mullions by toggle bolts through t projecting strap anchors. A fiber g ket was used for insulation betw steel and aluminum. Metal shims w also used to assure proper compres of the polyvinyl gaskets against t aluminum mullion angles. It is p sible to embed anchor points in lightweight concrete panel to m the requirements of any anchor system which the architect or en neer may design.

Installation

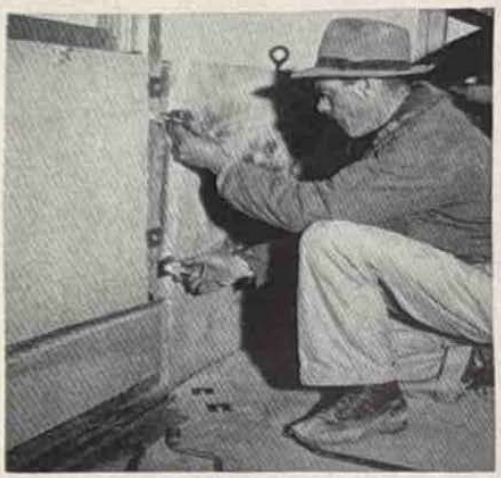
Panels were delivered to the j on large wooden easels and unload by forklift trucks. Handling of t panels was facilitated by threaded i serts which were welded to the re forcing mesh and into which steel ey bolts were screwed to provide lifti points. The panels were then lift into place in the four-story buildi by means of standard rigging equi ment. Installation was accomplishe by the masonry contractor, A. H. Ma ted, Inc., in less time than expecte

CV PANELWALL is 9 ft. by 3¼ ft. by 3 in. thick.



PANEL WHEELED into position on double dolly.

CEMENT MORTAR BED is placed, along with Koroseal gasket on ends of panel.

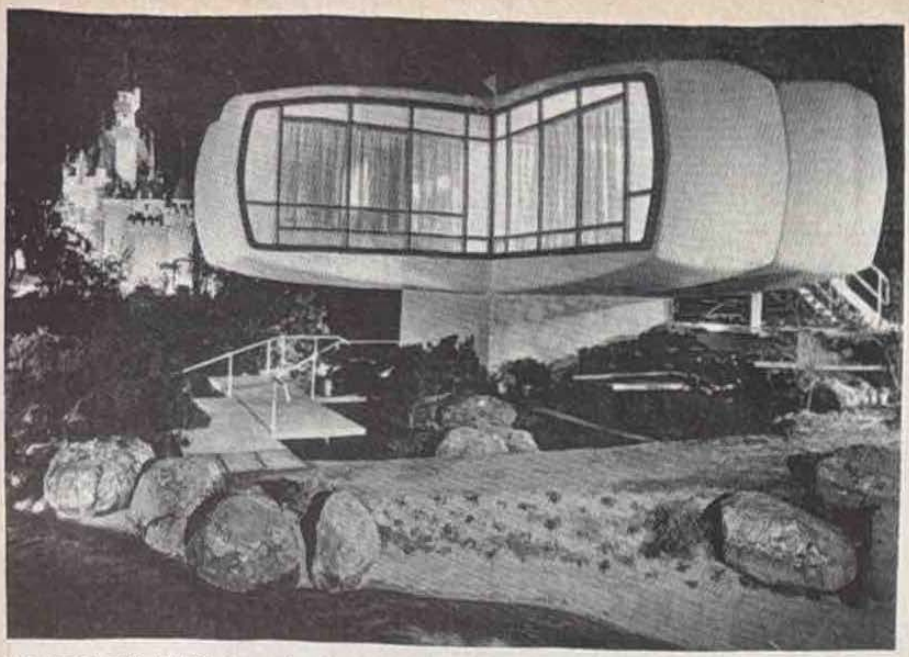


TOGGLE BOLTS placed through holes in strap anchors into holes in mullion.

FIBER GASKET and metal shims placed for accurate panel adjustment.

BOLTS TIGHTENED and lifting eye-bolt removed (above); caulking from rear to seal around base of mullion (right).

JOINT at concrete deck caulked to ½-in. depth (left); membrane strip placed to cover back of aluminum mullions before application of interior plaster.



HOUSE OF THE FUTURE, dramatized in this night view taken at site in Disneyland Park, features four curved wings cantilevered from central utility core. Gleaming white structure is result of more than three years of research by Monsanto, MIT and 12 cooperating companies in building supply and home equipment field. Family food center has been designed not to look like kitchen when not in use. Architects: Richard W. Hamilton and Marvin E. Goody.

Plastic house undergoes test program

The plastic house of the future will be strong, weather resistant, quickly assembled and long lasting. That's the opinion of Robert P. Whittier of the plastics division, Monsanto Chemical Co., who addressed the annual meeting of the American Society of Mechanical Engineers in New York.

"Such a house has already been constructed," Whittier explained, referring to an X-shaped display house of plastic built and opened for exhibition in Anaheim, Calif., in mid-1957.

"The house which has since undergone extensive testing has come out with flying colors. It has attracted a great deal of attention from the building industry," he added.

A provocative design was chosen for the house to demonstrate what sculptured architectural shapes could be produced with commonly used plastic materials. Planning requirements were based on the needs of an average family of four.

The house consists of a square center core with basement beneath. Four wings are cantilevered from the central core which is 16 ft. square. Each wing is constructed of two 8x16-ft. floor sections and two roof sections of the same dimensions, joined together to form a sort of finger.

Limitations adhered to by the architectural staff that planned the structure were that plastics should be specified where it was felt they could offer advantages, currently or projected; that the structure and components should not be imitative merely to gain public acceptance; and that maximum dimensions should be limited to assure ease in shipipng.

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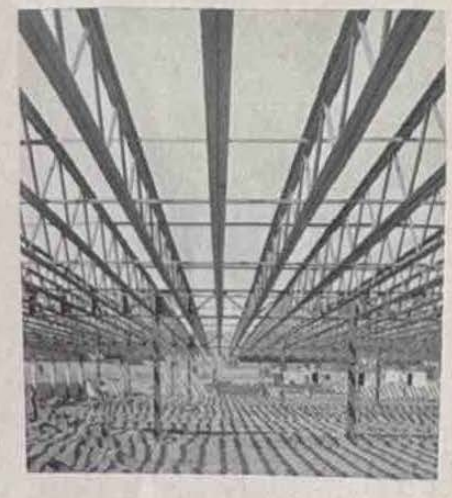
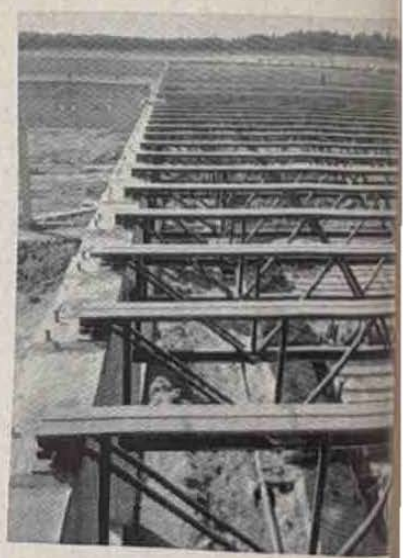
Trainload of steel for Oregon plant

Fourteen carloads of steel weighing 396 tons are framing a 108,000-sq. ft. building for the Tektronix, Inc., plant in Beaverton, Ore. Each unit of this construction is 180x12 and contains 18 bays, 20x60 ft.

The structural system employed V-Lok, an interlocking steel fra

FRAME shown during erection represents 14 carloads of steel.





which locks the roof purlins to the girders by means of wedge shaped slots into which end connectors are driven rather than using bolts, rivets or welding. Girders supporting this system were bolted to the steel columns because of the exceptionally high end reaction at these points.

This is one of the few buildings in the world in which every single structural shape is made of cold roll formed steel. Top and bottom chords of the supporting members are made of Macomber V-section. Web members in these girders and purlins are hollow tubes; steel columns are two channels welded face to face; angles are formed from strip steel. All of the roof framing members are 36 in. deep so that continuous equipment could be suspended and some bays support five-ton cranes attached to the roof purlins.

Mel Loftin was the designer and I. A. Cooper, structural engineer, both of the Tektronix organization. W. E. McChord was the contractor. Steel was fabricated in Canton, Ohio, and erected by Portland Wire & Iron Works, Macomber's representative in that area.

Concrete blocks form bowstring truss

A method of prestressing concrete blocks so that they form an arch, or bowstring roof truss, has been used in the construction of a supermarket in Alpena, Mich. The installation is said to be the first of its kind in the United States and possibly the world.

Eight trusses, each weighing approximately 20 tons, span the 100x150-ft. concrete masonry structure. They are 100 ft. long and can support a live load of 40 psf. Design is effected by special shaped soffit block featuring cast channels in which steel wires are threaded.

Hoisted into position by crane, the trusses are spaced 18 ft. 8 in. apart. Every other truss has an arch of about 13 ft.; alternate trusses rise around 11 ft. This technique gives the foor a folded shell appearance as well as a resistance to heavy snowfall indigenous to that area.

All fabrication took place right at the jobsite. The straight tension tie, or bottom chord, of the truss is composed of U-shaped lintel block (12x16 in.) filled entirely with grout. Post-tensioning is provided for by four flexible tubes, each of which encases 10 prestressing wires.

Assembly of the bow, or top chord, consists of laying two rows of 8-in. high hollow soffit block side by side on previously built light scaffolding. A single row of 6-in. high units is then placed atop the double row. Here again, prestressing wires are inserted in the special grooves.

Both chords are subsequently post-tensioned and grouted. Anchorage is supplied by precast reinforced concrete end blocks. All prestressing wire (¼ in. diameter) is cold-drawn steel, with an ultimate strength of 240,000 psi.

Vertical hangar posts (five per truss) support the bottom chord. They are made up of 8x8-in. units, filled with grout, and two mild steel bars. Roof area between trusses is built of 6-in. pretensioned soffit block planks. All told, there are approximately 25,000 concrete blocks in the roof.

The concrete masonry bow string truss was designed by the Prestressing Research and Development Corp. of San Antonio, Texas. Architect for the Kroger supermarket was A. Charles Jones of Flint, Mich.; general contractor was Elastricrete Construction Corp., a subsidiary of Besser Co. of Alpena.

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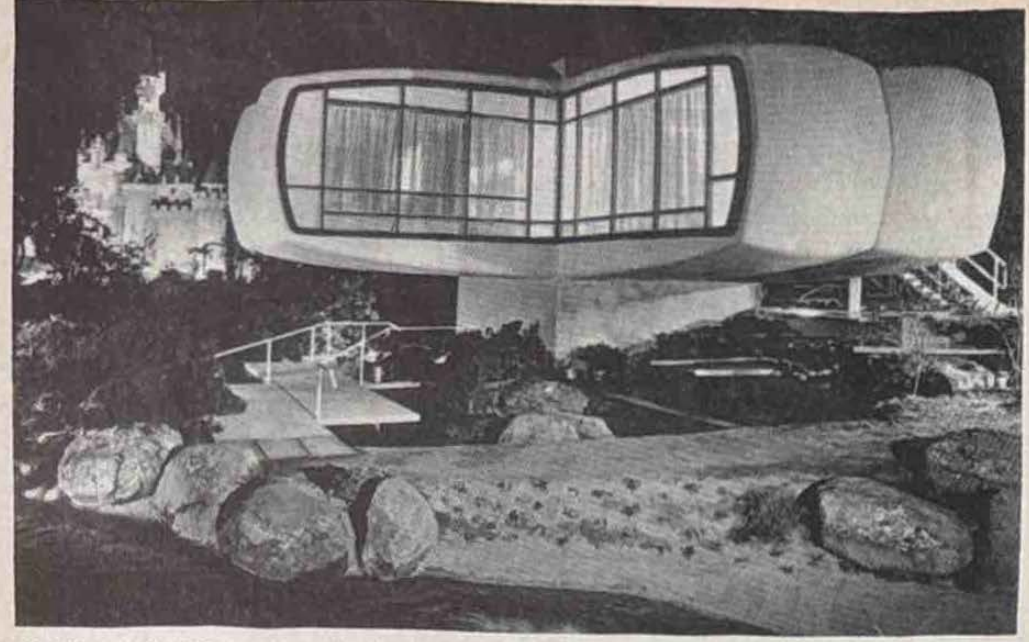

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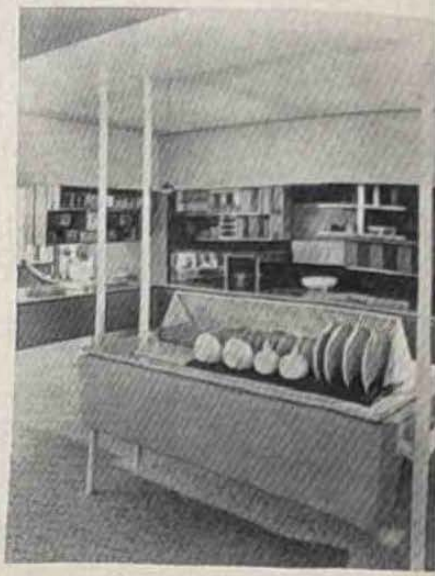

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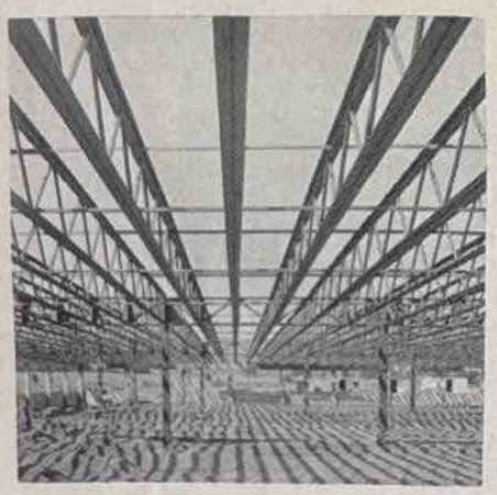

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Eight trusses, each weighing approximately 20 tons, span the 100x150-ft. concrete masonry structure. They are 100 ft. long and can support a live load of 40 psf. Design is effected by special shaped soffit block featuring cast channels in which steel wires are threaded.

Hoisted into position by crane, the trusses are spaced 18 ft. 8 in. apart. Every other truss has an arch of about 13 ft.; alternate trusses rise around 11 ft. This technique gives the foor a folded shell appearance as well as a resistance to heavy snowfall indigenous to that area.

All fabrication took place right at the jobsite. The straight tension tie, or bottom chord, of the truss is composed of U-shaped lintel block (12x16 in.) filled entirely with grout. Post-tensioning is provided for by four flexible tubes, each of which encases 10 prestressing wires.

Assembly of the bow, or top chord, consists of laying two rows of 8-in. high hollow soffit block side by side on previously built light scaffolding. A single row of 6-in. high units is then placed atop the double row. Here again, prestressing wires are inserted in the special grooves.

Both chords are subsequently post-tensioned and grouted. Anchorage is supplied by precast reinforced concrete end blocks. All prestressing wire (¼ in. diameter) is cold-drawn steel, with an ultimate strength of 240,000 psi.

Vertical hangar posts (five per truss) support the bottom chord. They are made up of 8x8-in. units, filled with grout, and two mild steel bars. Roof area between trusses is built of 6-in. pretensioned soffit block planks. All told, there are approximately 25,000 concrete blocks in the roof.

The concrete masonry bow string truss was designed by the Prestressing Research and Development Corp. of San Antonio, Texas. Architect for the Kroger supermarket was A. Charles Jones of Flint, Mich.; general contractor was Elastricrete Construction Corp., a subsidiary of Besser Co. of Alpena.

specify
STYLE LEADERS!

BY HAWS

Model 7G

Model 7D

Model 7A

HERE ARE BUT THREE HAWS Fountains that hold the favor and confidence of architects everywhere . . . distinctively styled in durable vitreous china, with HAWS vandal-proof features for superior sanitation and performance.

And the same holds true for electric water coolers, multiple fountains, recessed models . . . all types . . . beautifully styled in all modern materials . . . and engineered for faultless performance.

HAWS DRINKING FAUCET COMPANY
(Since 1909)
1443 FOURTH STREET
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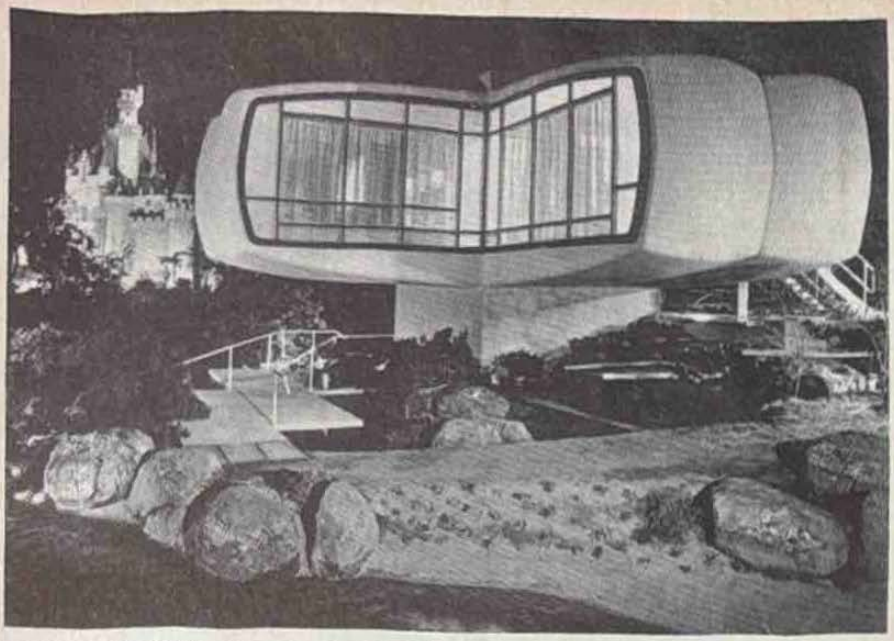
Get full information in the new 1957 HAWS Catalog. Photos and detail drawings of hundreds of "style leader" fountains.



HOUSE OF THE FUTURE, dramatized in this night view taken at site in Disneyland Park, features four curved wings cantilevered from central utility core. Gleaming white structure is result of more than three years of research by Monsanto, MIT and 12 cooperating companies in building supply and home equipment field. Family food center has been designed not to look like kitchen when not in use. Architects: Richard W. Hamilton and Marvin E. Goody.

Plastic house undergoes test program

The plastic house of the future will be strong, weather resistant, quickly assembled and long lasting. That's the opinion of Robert P. Whittier of the plastics division, Monsanto Chemical Co., who addressed the annual meeting of the American Society of Mechanical Engineers in New York.

"Such a house has already been constructed," Whittier explained, referring to an X-shaped display house of plastic built and opened for exhibition in Anaheim, Calif., in mid-1957.

"The house which has since undergone extensive testing has come out with flying colors. It has attracted a great deal of attention from the building industry," he added.

A provocative design was chosen for the house to demonstrate what sculptured architectural shapes could be produced with commonly used plastic materials. Planning requirements were based on the needs of an average family of four.

The house consists of a square center core with basement beneath. Four wings are cantilevered from the central core which is 16 ft. square. Each wing is constructed of two 8x16-ft. floor sections and two roof sections of the same dimensions, joined together to form a sort of finger.

Limitations adhered to by the architectural staff that planned the structure were that plastics should be specified where it was felt they could offer advantages, currently or projected; that the structure and components should not be imitative merely to gain public acceptance; and that maximum dimensions should be limited to assure ease in shipipng.

Details of the extensive testing program that the house has been subjected to were discussed by Whittier. Significant conclusions gained from this work indicate that technical data currently available on plastic materials can be used to design structures by the same engineering principles applied to standard materials.

Such tests included the effect of shifting of weights within the ho such as would be experienced by f ily and furniture movements. Eff of snow, wind and earthquakes the dwelling were also calculated.

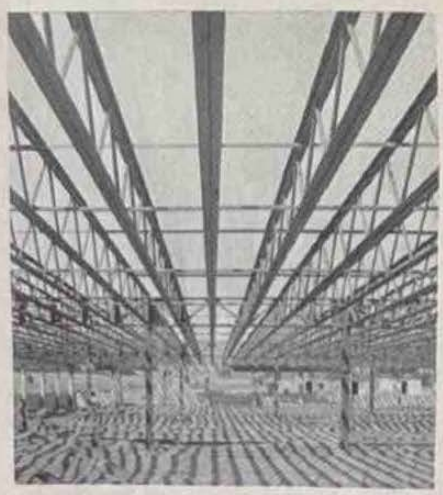
Although the house was never tended to be commercially produc its erection has proven the feasibi and advantages of large-scale us plastics in the building industry, cording to Whittier, who served project engineer on the job. Edw D. Schopbach was construction e neer.

Trainload of steel for Oregon plant

Fourteen carloads of steel weighing 396 tons are framing a 108,000-sq. ft. building for the Tektronix, Inc., plant in Beaverton, Ore. Each unit of this construction is 180x12 and contains 18 bays, 20x60 ft.

The structural system employe V-Lok, an interlocking steel fra

FRAME shown during erection represents 14 carloads of steel.



which locks the roof purlins to the girders by means of wedge shaped slots into which end connectors are driven rather than using bolts, rivets or welding. Girders supporting this system were bolted to the steel columns because of the exceptionally high end reaction at these points.

This is one of the few buildings in the world in which every single structural shape is made of cold roll formed steel. Top and bottom chords of the supporting members are made of Macomber V-section. Web members in these girders and purlins are hollow tubes; steel columns are two channels welded face to face; angles are formed from strip steel. All of the roof framing members are 36 in. deep so that continuous equipment could be suspended and some bays support five-ton cranes attached to the roof purlins.

Mel Loftin was the designer and I. A. Cooper, structural engineer, both of the Tektronix organization. W. E. McChord was the contractor. Steel was fabricated in Canton, Ohio, and erected by Portland Wire & Iron Works, Macomber's representative in that area.

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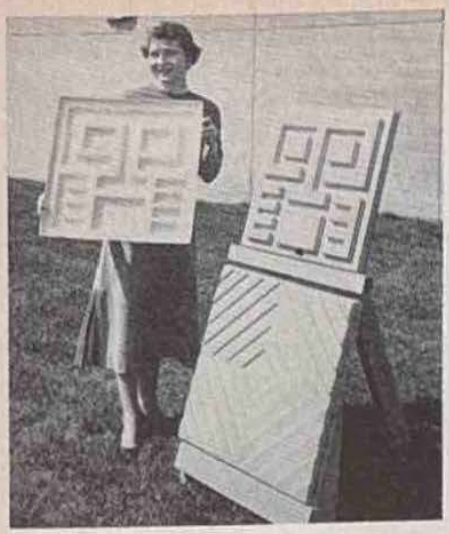


PATTERNS IN CONCRETE: Plastic and rubber form liners produce an almost limitless variety of textures and patterns for concrete surfaces. The liners also can be used for facing concrete block. Both types of liners are reusable a number of times if handled carefully, need no form oil or bond breaker and produce sharp patterns with a smooth, almost glassy surface that requires no grinding or finishing. Both textured and patterned liners can be used successfully for horizontally precast panels, but only the textured liners have so far been employed in vertical cast-in-place construction. —Portland Cement Association.

(Item No. 1)

LUMINAIRE: A shallow, two-by-four type luminaire called Twin-Lux features diffusing panels with matte finish to improve light distribution and eliminate daylight reflections from windows and open doorways. Fixture is available in two styles, with 40x40-deg. plastic louvers or with acrylic or vinyl diffusing panels. The louvered style can be provided with color filters. Both styles have perforated metal trim betwen the panels. Entire unit is encased in sturdy steel housing with welded sides.—Smoot-Holman Co.

(Item No. 2)

TILE: Latest offering in the tile line is Ramona Starline, a celestial-like pattern which will be available in seven colors. Starline is designed for use with Ramona wall trim and Krystal-glaze tile and will sell at a competitive price with plain color tile.—Pacific Tile and Porcelain Co.

(Item No. 3)

HEAVY-DUTY FLOORING. For durable, slip-resistant floors in industrial plants, offices, hospitals and other similar installations, a composition, trowel applied flooring material is being offered in nine colors and more than 40 different formulations. Selbalith, a magnesium oxychloride cement, can be applied over wood, concrete or steel. It is hard enough to withstand trucking and weight of heavy furniture without indenting, yet sufficiently resilient to stand on over long periods of time without causing fatigue, the manufacturer says.—Selby, Battersby & Co.

(Item No. 4)

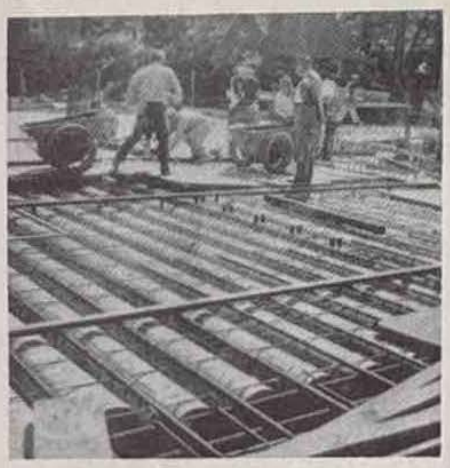
CABINETS: A West Coast firm organized just a few months ago has developed a system for modular cabinets which features precut fir plywood components locked together with a pair of aluminum frames. Assembly of the Arcware cabinets can be accomplished on the jobsite by the builder's crew. No skilled labor is required since the system eliminates all special joinery and makes glue, nails and screws unnecessary. Cabinet faces can be made of any ¾-in. material. All hardware, including knobs, hinges, catches and shelf standards can be premounted on the plywood components while they are flat on a bench or assembly line. — Architectural Hardware Corp.

(Item No. 5)

FIBERGLASS SCREENING: U. S. Steel has entered the fiberglass screening field with a product to be distributed in the West through the Cyclone Fence sales offices. The lightweight, corrosion-proof cloth, woven from glass filaments, is being manufactured in a midwest plant in all standard widths.—American Steel and Wire Division, U. S. Steel Corp.

(Item No. 6)

HOLLOW CONCRETE SLABS: A construction method that produces hollow concrete slabs is said to be not only economical, but also to increase the practical span limits. System is a monlithic one-way concrete plate slab, cast in place and using paper tubes to form the hollows within the slab. Tubes can be cut and positioned to accommodate a variety of design, for placing overhangs, stairs and other architectural features. Hollow spaces



can be used for channels or ducts [illegible] mechanical installations and for [illegible] air ducts.—The Tube Slab Co.

(Item No. [illegible])

HOME INTERCOMS: The Fanf[illegible] combination music and voice int[illegible] communication system is packaged [illegible] two kits for simpler installation. O[illegible] kit is for use when the rough-in wo[illegible] is done, the other is an electronic [illegible] for final installation. The Musi-T[illegible] system incorporates a six-tube print[illegible] circuit AM radio that permits pip[illegible] of programs to as many remote st[illegible] tions as desired.

(Item No. [illegible])

ASPHALT SHINGLE: A giant si[illegible] asphalt shingle is expected to spe[illegible] roof applications and add to the col[illegible] effect. Roofmaster shingles measu[illegible] 16x42.85 in., are tightly sealed to ea[illegible] other by a thick band of Sta-Seal a[illegible] hesive which works without depen[illegible] ing on the heat of the sun. Large ar[illegible] of the shingle reduces the blacko[illegible] effect of numerous edges. — Phili[illegible] Carey Manufacturing Co.

(Item No. [illegible])

DRAINBOARD CAP: Low rolled ed[illegible] of the Hermosa Nu-Vit Lock-set drai[illegible] board cap provides a trim shape lo[illegible] enough for easier maintenance an[illegible] cleaning, yet high enough to preve[illegible] any dripping on cabinets or floor[illegible] Locking device provides a permane[illegible] bond between the cap and the settin[illegible] cement. Installation is easier an[illegible] faster, the manufacturer says, wit[illegible] lock-set groove filled at the same tim[illegible] the entire back is buttered.—Glad[illegible] ding, McBean & Co.

(Item No. [illegible])

CURTAIN WALL SEALER: A cold[illegible] flow bonding agent that can be in[illegible] jected into horizontal or vertica[illegible] seams to provide a permanent, pli[illegible] able seal unaffected by weather o[illegible] other corrosive agents is being mar[illegible] keted under the trade name Panel[illegible] seal. While developed primarily t[illegible] seal seams or joints between two ver[illegible] smooth surfaces such as glass an[illegible] metal, it can be used on other porou[illegible] and non-porous building surfaces[illegible] Panelseal will stretch or contract a[illegible] adjacent panels expand or contract[illegible] A single-component caulking sealant[illegible] it eliminates the need for on-the-jo[illegible] preparation; is supplied in aluminum[illegible] lined cartridges with disposable plas[illegible] tic tips or in bulk packs.—Pepco Divi[illegible] sion, The Bettinger Corp.

(Item No. [illegible])

LITERATURE

EPHEMERIS: The 1958 edition of the Gurley Ephemeris is now ready for distribution to surveyors and engineers and to instructors and students of surveying. For the third year, the Ephemeris features charts to simplify computation of Polaris. Also included is an almanac listing 28 selected stars for determining stellar observations, charts for the sun and Polaris, as well as definitions of astronomical terms and a number of sample problems. Tables are abridged from the American Ephermis and Nautical Almanac and the Standard Field Tables of the Bureau of Land Management.—W. & L. E. Gurley.

(Item No. 12)

METAL LATH: A four-page specification check list should be a valuable aid to architects, engineers, contractors in preparing metal lath and plaster specifications. Each of the principal metal lath assemblies including partitions are covered. Brief and to the point, in outline form, the required materials are named, followed by each operation.—Metal Lath Manufacturers Association.

(Item No. 13)

GLASS BLOCK: The recently introduced color glass blocks and the comparatively new concept of glass block curtain walls are described in a handsome 32-page publication. Full information is given on light transmission, insulation values, accessory materials and specifications. Included are seven pages of detail drawings of elevations and sections of typical glass block panels. Physical performance data is outlined, as well as guides to the selection of the proper type of block.—Pittsburgh Corning Corp.

(Item No. 14)

STONE: "The Modern Stone Age Is Here" offers suggested uses of stones and stone patterns for many types of construction. Other features include a pictorial review of the use of stone through the ages from the time of the cave man on through Egyptian, Grecian, Roman, Medieval, etc., periods to the present time. Every type of quarried stone is depicted in natural colors.—Building Stone Institute.

(Item No. 15)

PRESSURE TREATED WOOD: The "Architect's Guide" gives a brief, concise description of the damage that decay, insects and termites can do to untreated wood. Among the illustrations is a drawing depicting how termites build runways over obstructions and towers to wood that is not in direct contact with the earth. Last half of the eight-page brochure lists recommendations for use of pressure treated wood for vital structural members (and for the entire wood framing if drywood termites are prevalent). Typical building specifications are included.—Western Wood Preserving Operators Association.

(Item No. 16)

SLIDING GLASS DOORS: Excellent color photographs dominate a 16-page publication on the Ador line of sliding glass doors. The brochure introduces the new Thermo door designed exclusively for use with 1-in. dual glazing. Actually two doors in one, it has an outer frame and an inner frame separated by continuous strips of non-metallic insulation for control of heat flow and to reduce condensation. Brochure also contains extensive drawings and closeup installation details.—Ador Sales, Inc.

(Item No. 17)

PRESTRESSED CONCRETE: A number of brochures and magazine reprints have been assembled in a binder offering engineering data and technical information on prestressed concrete. Dimensions, physical properties and table of loadings for double tees, channels and joists are included, as well as drawings and construction photographs.—Leap Associates.

(Item No. 18)

PAINT: To assist architects in the selection and specification of the proper finish for most types of surfaces, Glidden has prepared a 28-page manual which includes a comprehensive chart that matches various painting systems with materials, surfaces or problems and types of finishes. Manual also includes an evaluation of painting systems, detailed specifications for both exteriors and interiors and a quick-reference index.—The Glidden Co.

(Item No. 19)

PLUG-IN BUSWAY: General Electric introduces the company's new 100-ampere plug-in Flex-A-Power busway with a 12-page bulletin giving complete details on the unit and its installation. Available in both three- and four-pole construction, the busway was designed for indoor use in industrial plants, commercial buildings, manual training shops and laboratories where plug-in receptacles over a wide area are necessary. — General Electric Co.

(Item No. 20)

STEEL FRAMING: Design details are shown in drawings and photographs in a 40-page reference manual on V-Lok steel framing. The brochure includes a typical framing plan for an industrial layout, selected details for gymnasium roof, school corridor and masonry wall and a two-page overall view of the system in a complete school layout.—Macomber, Inc.

(Item No. 21)

VENTS: A four-page brochure depicts modular brick size vents in cast aluminum designed for stormproof venting of confined spaces. C-S vents are recommended for air conditioning intakes, ventilation of roof spaces, crawl spaces, pipe tunnels, hung ceilings, bathrooms and other installations. Five sizes are supplied for standard brick and two sizes for jumbo brick.—Construction Specialties, Inc.

(Item No. 22)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send the literature or data about the material, products and tools listed on these pages.

JANUARY 1958

ITEM NO. (Circle those you wish): 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Name_____ Title_____

Firm_____

Address_____

City_____ Zone____ State_____

SUPPLIERS

• **Portland Cement Association** has named Daniel E. Seymour as public relations representative for Washington and 11 counties in Idaho.

• **Kaiser Gypsum Co.** of Oakland, has named William R. Soule as administrative assistant to Claude E. Harper, vice president and general manager.

• **T. M. Pollard** of Spokane has been appointed distributor of GRID unit heaters, blast heaters and radiators, covering 18 counties in Washington, seven in Idaho and eight in Montana.

• **O'Keefe & Merritt** of Los Angeles has promoted W. W. (Wally) St. Clair to general sales manager.

• **Peerless Electric Co.** of San Francisco has a new national sales manager, John C. Epperson, who also is vice chairman of the Golden Gate Section, Illuminating Engineering Society.

• **Trueforms, Inc.**, with headquarters at 414 Times Square Bldg., Seattle, has introduced in the Northwest a new type of concrete form tie and hardware system for all kinds of concrete forming. Homer Allen, president and general manager, says that one of the system's advantages is the ability to provide an architectural concrete finish economically.

• **Williamson Cascade Pumice Co.** of Bend, Ore., has become Cascade Pumice Corp., following its sale to Boise Cascade Corp., with headquarters in Boise, Idaho. Former owner Lloyd A. Williamson, who is president and general manager of the new corporation, has announced the addition of a sales manager, Ralph H. Young of Seattle.

• **Weber Showcase and Fixture Co., Inc.**, of Los Angeles has a new director of industrial relations, Albert E. Johann.

• **The Payne Co.**, which has opened a new plant facility and home office in La Puente, Calif., has appointed two new factory sales engineers—William F. Steiner in northern California and Dick Judson in Oregon and southern Idaho.

• **Tamco Corp.** has appointed Harold G. Ward as regional sales manager for northern California, with headquarters in Pleasant Hill.

• **Trimview Metal Products** of Covina, Calif., has allocated an initial grant of $500 to the California College of Arts and Crafts in Oakland to help promote a student project of designing new handles for aluminum sliding glass doors.

• **Forest Fiber Products Co.** of Forest Grove, Ore., has a new merchandising manager, John W. Cain, most recently account executive for the Gerber Advertising Agency.

• **Pacific Tile and Porcelain Co.** of Los Angeles has appointed Walter F. Pruter Jr., formerly with Kaiser Aluminum and Chemical Sales, Inc., as general sales manager.

• **Ruby Lighting Corp.** has completed a major expansion move into new manufacturing facilities at the Whittier, Calif., plant of the parent company, Ekco Products Co.

• **Fibreboard Paper Products Corp.** has appointed Paul E. Fischer as manager of manufacturing-building materials division, with headquarters at the company's executive offices in San Francisco.

• **Pack River Tree Farm Products** through its Thompson Falls, Mont., lumber manufacturing plant received the 1957 citation award for Mos during National Employ the Phys ly Handicapped Week.

• **United States Plywood Corp.** named Wallace E. Williams as dire of its newly created West Coast wood purchasing headquarters in attle.

• **Westinghouse Electric Corp.** appointed William L. Constance Pacific Coast regional manager air conditioning division, working of Los Angeles for the present.

• **Southern Sash of California,** is the name of a new branch sales fice and warehouse opened at 720 liams St., San Leandro, Calif., Southern Sash Sales & Supply Inc., with Pat Madden as sales ma ager.

• **United States Ceramic Tile Co.** its subsidiary, Sparta Ceramic Co., part of its new marketing program southern California, has named D nis Affeldt as district manager opens display and warehouse servi at 813 N. La Brea Ave., Los Ange this month.

• **DeVilbiss Co.** has named Georg Fulton to the post of West Coast gional sales manager, with headqua ers at the firm's direct factory bra in Los Angeles.

• **Stran-Steel Corp.** has appoin Virgil D. Brown as architectural ducts zone engineer for six west states—California, Washington, O gon, Nevada, Idaho and Arizona maintaining headquarters in Francisco.

• **Douglas Fir Plywood Associat** of Tacoma has promoted Stanley Taylor to field promotion direct succeeding Joseph Weston, who retired after serving the organi tion since 1938.

• **Laminated Woods, Inc.**, of Seat wholesale distributor of Rilco Weyerhaeuser products, has appoin Charles B. Bay as sales engineer. company's warehouse, first of its k in the nation, supplies builders w immediate delivery of stock sizes laminated beams for commercial residential construction which p viously took from six to eight we

• **Structural Laminates, Inc.**, is a n firm in Beaverton, Ore., devoted manufacturing panels for roof, fl and wall construction.

OFFICE BUILDING at new headquarters of western division, Titan Metal Manufacturing Co. on southeastern edge of Newark, Calif., is one of three structures just completed. Facilities establish new source of brass products for industries throughout 11 western states and is only brass mill in northern California. Architects-engineers: Garretson & Elmendorf; general contractor: Rosendahl Corp.

An Exclusive Gladding, McBean & Co. Product

EQUAL PERFECTION ON ALL FACES

The dry press process is used by Gladding, McBean & Co. to produce SCR brick for partition walls that have both sides exposed. No kiln marking on one face as found in brick made by the stiff-mud process.

ENDURING BEAUTY WITH STRENGTH

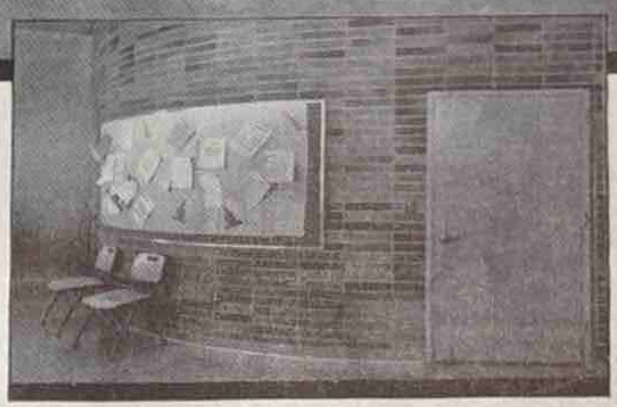
Partitions have the warm color of burned natural clay with pleasing variations in shading, and with strength to support roof beams.

EASE OF INSTALLATION

Gladding, McBean's SCR dry press units are cored with 5 holes large enough for ⅝ inch reinforcing rods, and electrical conduits. Voids around reinforcing steel are slushed full with grout.

LOW COST AND MAINTENANCE

Gladding, McBean's dry press SCR brick was installed in the McLoughlin Junior High School at "in-the-wall" costs competitive with non-masonry construction. Total cost of this school was $11.74 per sq. ft. of floor area. SCR requires no extra surfacing and offers the extremely low maintenance associated traditionally with the beauty of brick.



IN VANCOUVER, architects McCoy and Bradbury selected the new dry press SCR brick for the McLoughlin Junior High School. General Contractor: LEWIS CONSTRUCTION CO. Masonry Contractor: PAUL PARKER.

SCR

dry press brick

A PRODUCT OF

GLADDING, McBEAN & CO.

LOS ANGELES, SAN FRANCISCO, SEATTLE
PORTLAND, SPOKANE, PHOENIX

Since 1875 — the West's oldest and largest creator of ceramic products

T-SQUARE TALK

New Firms, Associates

Albert Sigal Jr. and Milton F. Johnson have formed a partnership for the practice of architecture, with offices at the Stanford Professional Center, Palo Alto, Calif. Both were graduated in 1952 as members of Stanford's first masters class in architecture Sigal has conducted his own office in San Francisco since 1956; Johnson has been associated almost continuously with Stanford since his graduation.

The San Francisco architectural firm of Ambrose & Spencer is now known as Spencer & Lee, with Eldridge T. Spencer and Alton S. Lee as participating partners. William Clement Ambrose, a partner in the firm since 1943, has retired from active practice. He recently received an honorary award from the Building Industry Conference Board.

Clark Goldsworthy, a graduate of Washington State College, has been made an associate in the office of Thomas F. Hargis, AIA, of Yakima, Wash.

Office Moves

A. O. Bumgardner, AIA, to 2017 Broadway N., Seattle (MInor 8178).

Deaths

Charles T. Miller, AIA, of Seattle, died of a heart attack December 26. A graduate of the University of Michigan, he was a partner in the architectural firm of Miller & Ahlson.

Frederick Law Olmsted Jr., 87 landscape architect who drew up the master plan of California's state park system, died December 25 at Malibu Beach where he had lived the past year. Educated at Harvard University, he served his apprenticeship under his father, Frederick L. Olmsted Sr., who designed New York's Central Park and helped plan the Stanford University campus.

Appointments

James J. Chiarelli, president of the Washington State Chapter, AIA, has been appointed to a three-year term on Seattle's Board of Adjustment, which acts on applications for zoning variance and conditional use permits.

Marvin I. Kudroff, associate in the Los Angeles architectural-engineering firm of Daniel, Mann, Johnson & Mendenhall, has been named director of engineering.

Vinton Frost, who has been with the office of John C. Lindsay, AIA, as business administrator the last five years, has been appointed vice president.

Elections

Camile Van De Weghe has been elected 1958 president of the San Francisco Architectural Club, which holds spring classes in architecture at 507 Howard St. Other officers: O. Hichenlooper, vice president; James O. Brummett, secretary; and J. W. Tasker, treasurer.

Wendell R. Spackman, AIA, of San Francisco has been elected 1958 chairman of the Bay city's Building Industry Conference Board, succeeding K. E. Parker, contractor. New vice chairman is Dudley Deane, consulting engineer, and William E. Hauge of AGC continues as honorary secretary.

Magazine Awards

Paul Hayden Kirk of Seattle has won four of the five cash prizes presented in House & Garden's 1957 architectural awards competition. He won both first and second prizes ($1,000 and $500) in the class for larger houses and two of the three cash prizes ($500 each) for houses under 1,800 sq. ft. Other West Coast winners: $500—Smith & Williams of Los Angeles; special mentions —Robert Billsbrough Price (2) of Tacoma and Paul Thiry of Seattle. Only other winner was a Houston firm—Preston Bolton and Howard Barnstone.

Six of the seven top awards in the fourth annual interior design awards program sponsored by Institutions Magazine have gone to West Coast architects and designers. Douglas Bennett of Seattle won an award of special distinction for the Chart Room and Westward Lounge of the Westward Hotel, Anchorage. Awards of merit went to Victor Gruen Associates, Beverly Hills; Mario Gaidano, San Francisco; Thorton Ladd & Associates, Pasadena; Robert K. Grubb, Portland; and George Vernon Russell, Los Angeles.

Correction

Architect Ray Densmore has opened his own office at 140 N. Robertson Blvd., Beverly Hills, Calif., rather than in Pasadena, as was reported last month.

With the AIA

Howard L. Cook will be inst as president of the Hawaii Cha AIA, at the annual awards dinn Honolulu January 24. Other newly elected officers are Douglas W. Freeth, vice president; Clifford F. Young, treasurer; and Frank S. Haines, secretary. Directors are retiring president Richard N. Dennis, Frank Slavsky and William D. Merrill.

A partner in the firm of Wimb & Cook, the new president is a g uate of the University of Wash ton. In 1940 he went to Hawaii w he was employed as an architec military work at Pearl Harbor.

Coast Valleys Chapter, AIA, California has elected W. L. Higg president; Paul Huston, vice pr dent; William Daseking, treasu and E. N. Chamberlain, secretary

IN SAN DIEGO—Retiring president of chapter, Sim Bruce Richards, presents gav Raymond Lee Eggers, while Glenn Bakh, heads California Council, AIA, looks on.

San Diego Chapter, AIA, has ele ed these officers: Raymond Lee E ers, president; William F. Wilmu vice president; Lloyd P. A. Ruoc secretary; Delmar S. Mitchell, tre urer; and John C. Deardorf, Richa George Wheeler and retiring preside Sim Bruce Richards, directors.

The Women's Architectural Leag has named this slate: Mrs. Earl MacDonald, president; Mrs. Robert Des Lauriers, vice president; M Frank D. Harrington, recording sec tary; Mrs. William Lumpkins, trea urer; and Mrs. Richard Pinnell, co responding secretary.

Officers of both organizations we installed at the annual Christm party December 11 at the San Die Yacht Club.

MOVIES

The Man from Missouri. Asbestos-Cement Association, 509 Madison Ave., New York 22, N.Y. 16mm sound, color, 18 min.

Illustrates how builders throughout U.S. are using cement-asbestos siding to increase sales of medium and higher priced homes. Written by Newton Meltzer whose credits include "Kraft Theater" and "You Are There" TV programs.

Steel in Concrete. Modern Talking Picture Service, 3 E. 54th St., New York, N.Y. 16mm sound, color, 38 min.

Covers theory and use of steel reinforcing bars in concrete structures. Actual laboratory demonstrations are conducted to show effects of stresses and strains upon unreinforced structures, interpreted and applied by designing engineer and/or architect. Also discusses problems of crack control, bond and anchorage which enables steel and concrete to act together as a unit, and ductility which determines ability of new billet steel reinforcing bars to be bent safely.

Lift Slab. Great Lakes Lift Slab Corp., 5306 W. Lawrence, Chicago, Ill. 30 min.

On-the-job shots show 1) pouring footings, 2) erecting columns, 3) pouring slabs one on top of the other, 4) lifting and securing slabs in place. Engineering limitations and freedoms of method are described.

This above All. Insulation Board Institute, 111 W. Washington St., Chicago 2, Ill. 16mm sound, color, 13½ min.

Traces development of roofs from prehistoric times to present, showing newest type of roof deck slab produced by insulation board manufacturers. Largely done in animation.

One Hundred Years of Roofing Experience. Johns-Manville, 22 E. 40th, New York, N.Y., 16mm sound, color, 20 min.

Shows step-by-step procedure for applying built-up roofing and results of several laboratory tests.

Planning a School Library. Remington Rand Division, Sperry Rand Corp., 315 Fourth Ave., New York 10, N.Y. 16mm sound, color, 23 min.

Demonstrates purpose and use of furniture, correct space allocation, arrangement of various types of equipment and need for correct lighting effects and floor coverings. Directed toward architect, administrator and librarian.

Controlled Climate. Armstrong Furnace Co., 851 W. Third Ave., Columbus 8, Ohio.

Tells story of man's search for comfort from his days as caveman up until the present in non-commercial way. Accompanied by 24-page, full color comic book to be used as pass-out piece after movie has been shown.

The Modern Touch. Resin Division National Starch Products, Inc., 270 Madison Ave., New York 16, N.Y., 16mm sound, color, 15 min.

Presents colorful demonstration of vinyl paint applications at both indoor and outdoor locations. Shows how these paints can be applied over surfaces alkaline in nature and uneven in absorption without telltale marks.

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SEATTLE • PORTLAND • SPOKANE

the Third Street Urban Renewal Project has been going on, action has been taken which will effect all other sections of Springfield and their citizens.

A first step, with recommendations from Springfield's Mayor Edward C. Harms Jr., was appointment by the housing authority chairman Douglas Spencer, of a 17-member Citizens' Advisory Board to work toward developing public understanding, advice and support for the renewal idea. Its members represent a wide range of backgrounds, as is required by the law, and in this case includes housewives, realtors, bankers and businessmen, a builder, sales manager, architect, former city councilman and high school principal.

The board's responsibility has been to work toward sufficient community understanding of and participation in the urban renewal project that it will be received and developed as the product of local efforts deserving interest and support and not some imported plan imposed by a distant agency, at the same time avoiding false information, rumor and misunderstanding. To date the board has published one pamphlet mailed to all households in Springfield, which in very general terms explains what the renewal project means for Springfield, and is in the process of preparing another more elaborate publication to answer the questions of local citizens as later phases of the program are reached. Board members have also been made available to all types of community organizations such as service clubs and church groups to explain the purposes and opportunities of the project.

In addition to their basic responsibility of community awareness, the board has been further organized into four separate committees, each assigned to work simultaneously on specific phases of the workable program:

1. Committee on Codes, Ordinances and Administrative Organization: This committee is working to see that the city has an adequate zoning ordinance as well as building, fire prevention and housing codes. In some cases this means acceptance of or minor revisions to existing codes and ordinances (as the zoning code) or submission of new ones to the city council for passage (as in the case of the new housing code which the committee has prepared). This is in addition to proposals the committee will make to HHFA as to what steps the city has taken and proposes to take to achieve the workable program in all its phases.

2. Committee on Neighborhood Analysis and the Comprehensive Community Plan: Analysis of existing conditions throughout the city's residential areas to find out what exists and what is needed for good living environments is this committee's assignment. It has been encouraging the formation of neighborhood councils to act as a do-it-yourself force for community betterment, each council to have jurisdiction over a neighborhood area, developing a spirit of unity and participation within these units of the community pattern.

The work the planning commission has already done toward developing the city's comprehensive plan is being augmented by the work of this committee, including studies for land use, thoroughfares, public facilities and a capital improvement program.

3. Committee on Citizen Participation: The appointment of the advisory board is in itself the result of the broad citizen participation required by the workable program. This subcommittee works particularly with those people living within the project area. Members have visited each of these families to give detailed explanations to the residents of what urban renewal means to them and to answer questions that may develop as the project planning progresses.

4. Committee on Finances and Housing of Displaced Families: The financing phases of the program appear quite bright for Springfield and the committee. The renewal project, cost of which is estimated to be $668,634, is financed by a sharing of that cost between the federal government and the city in which the former pays two-thirds and the city the remaining one-third. This financing covers the deficit between what it will cost the city to acquire and clear the land and what it will receive when it sells the land to private owners for actual redevelopment.

The city is permitted payment of its share by receiving credits for improvements it makes in the project area, including street and sidewalk paving, storm and sanitary sewers and school construction (the new junior high school is eligible for credit). The city manager, E. Robert Turner, has informed the committee that Springfield's share of the project cost can probably be financed out of its normal operating funds over the three-year realization period in which actual clearance and renewal takes place, once approved.

It has been realized that one of the issues of potential opposition to renewal is that of displacing families now living within the clearance area. The subcommittee is still at work this rather touchy phase of its assignment; a requirement of the workable program is that plans for the rehousing of all displaced families in decent, safe and sanitary dwellings must be prepared and approved before renewal funds are granted.

If Approved, What Then?

It is now expected that the first year's preliminary planning phase, including land planning studies, administrative and financing details and the workable program, will be finished some time during the first half of next year. If approved, what then?

First, it will be up to the people of Springfield, through their city council, to decide whether to proceed with the actual renewal as called for in the plan. Presumably, on the basis of the understanding and support the advisory board has developed in the city, this approval will be given.

Then will follow a three-year period during which time the housing authority plan for land acquisition, financing, development, etc., will go into operation. Once cleared, the land will be made available to public and private developers for its improvement as indicated by the final development plan and within a "reasonable period" of time. These requirements will be contained within the deed transferring the land to its new owners. The ultimate product will be a redesigned and revitalized area as envisioned by the development plan, taking its place in a community which is in the meantime going through a process of self-help and improvement intended to insure that the conditions bringing on deterioration and blight will not repeat themselves in Springfield in the years ahead.

The Springfield Spirit

So far Springfield's progress toward renewal has been marked by minor misunderstanding and opposition. The people living in the clearance area have been mostly cooperative and helpful in their attitude toward their place in its ultimate redevelopment, and good work has been accomplished through the activities of the Citizens' Advisory Board. On the other hand, there have been some in the city who might normally be expected to provide leadership for a movement of such importance to Springfield's future, but are reluctant to do so because of a political philosophy which tends to resist the participation of the federal government in local affairs. Or there are plain cases of misinformation: in

r housing Hungarian refugees, or is e land to be cleared and trees anted? But on the whole the pro- am has received considerable public couragement and participation.

This technique of citizen committee as been widely used in Springfield d much of the city's past success in ch programs as street tree planting, ain Street closure for a "shoppers' radise," passage of a library bond sue and voter approval of expansion the city's tax base indicate how ell it has worked on issues besides ban renewal.

Why is this true in Springfield? hat factors have permitted this rela- vely small city to tackle its prob- ms in a constructive and progressive ay which is too seldom found? In pringfield it is phrased quite simply: nfidence in government. In recent ears the average age of key people the community has been low Mayor Harms, City Manager Turner d City Planning Commission Chair- an Donald H. Lutes, an architect, e all in their early 30s) and this obably has something to do with eir willingness to consider new ideas d, once accepted, to back them with thusiasm. From the city council d city departments has come a similar spirit of cooperation and enthusiasm.

To this kind of leadership Springfield citizens have responded with non-partisan confidence and support. Much is yet ahead; urban renewal, still in a planning stage, is one of the more dramatic evidences of the Springfield spirit. So it seems particularly appropriate that both in its planning and in its ultimate realization, renewal is asking of Springfield people the kind of democratic spirit that it appears they are, by their own past evidence, most able to give: citizens cooperatively working to achieve a quality of community worthy of their individual aspirations and the promise that Oregon and the West Coast suggest for their city's future.

Ed. Note: The "shoppers' paradise" experiment will be covered in an early issue.

School costs (Cont'd from p. 10)

school building costs have risen 2½ times in the last 20 years, while the overall building cost index has risen three times in the same period.

Caudill said that citizens should think in terms of the total cost of the school and its effect on the tax bill, not in terms of square foot costs or other per unit costs. "Nobody buys a square foot of school," he declared, and challenged anyone to accurately define such a unit and then have that definition unanimously accepted.

"Square foot cost is dangerous because the easiest way to sell anything is on a cost basis," Caudill said. "Therefore, districts use different means of figuring unroofed walking space, overhanging roofs, corridors, ducts and tunnels." Practically any trick will be resorted to in order to increase the total area for this type of construction, he explained. Because it is so deceiving, it is one of the biggest problems.

He cited several variable, and often uncontrollable, factors which enter into the final cost of a school. Some of these are climate, soil conditions, nature of site, number of children, quality of construction and educational program.

Per pupil cost is just as dangerous, he pointed out. Many schools build just the central facilities or the core and then add other facilities at a later time. This gives a low original per pupil cost, but is not an accurate determination. Methods in computing enrollments also cause variations in this system, he added.

Today's homebuyers are sold on complete telephone planning

Elmer V. Moss, award-winning Seattle builder, says "I wouldn't think of building a home without telephone plans." His 250 homes, ranging from $13,250 to $30,000, feature concealed wiring and most of them have three conveniently-located telephone outlets.

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THE CALENDAR

Society of the Plastics Industry, Inc., Reinforced Plastics Division—13th conference, Edgewater Beach Hotel, Chicago, February 4-6.

Associated General Contractors of America — annual convention, Dallas, February 10-13.

National Concrete Masonry Association—annual convention, Chicago, February 17-20.

American Concrete Institute—annual convention, February 24-27, Morrison Hotel, Chicago.

National Lighting Exposition—New York Coliseum, March 9-12.

National Association of Architectural Metal Manufacturers—annual convention, Shamrock Hilton, Houston, April 27-May 2.

Western Air Conditioning Industries Association — conference and exhibit, Shrine Exposition Hall, Los Angeles, May 7-11.

Landscape architects hear related professionals

Interprofessional relations was the theme when the California Council of Landscape Architects held its third annual convention at Monterey recently.

William Penn Mott Jr., Oakland superintendent of parks, was the featured speaker on a panel discussion entitled "Should More Public Works Be Designed by the Landscape Architect in Private Practice?" Other panel members were Raymond E. Page of Beverly Hills and Donald van Riper of Sacramento. Howard O. Boltz, head of the landscape architecture major at California Polytechnic College, was the moderator.

Guest speaker from other professions included three representatives of the California Council, AIA—William Glenn Balch, president; L. F. Richards, vice president; and Melton Ferris, executive director; J. Warren Nute, California Legislative Council of Professional Engineers; Frank Lombardi, president, California Chapter, American Institute of Planners; Willis Stribling, president, and Elmer Merz, executive secretary, California Association of Nurserymen; Jack Anderson, president, and Kenneth Jes... executive secretary, California La... scape Contractors' Association.

New officers of the landscape ar... tects' group are C. Mason Whit... Berkeley, president; Courtland P... Pasadena, vice president; and L... M. F. Harris, Oakland, continues executive secretary.

FENCING TREATMENT is part of job at ... Hotel swimming pool in San Mateo, Calif., ... won 1957 sweepstakes trophy of Calif... Landscape Contractors' Association for Ha... & Schromm, Inc., of Palo Alto. Planned ... landscape architects Eckbo, Royston & Wi... of San Francisco, project includes unusual ... binations of planting stone work and ... terns in concrete drives and walks.

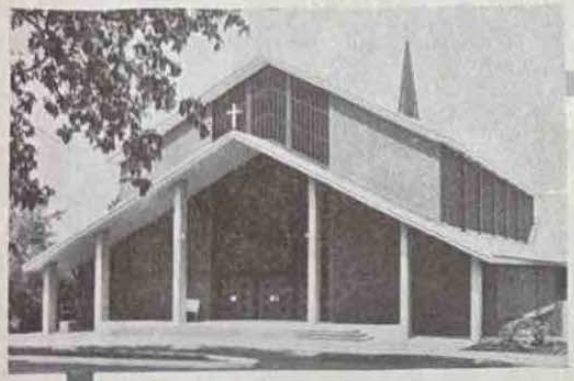
School modulation study underway in Texas

A study to explore the possibi... of using standard and correlated ... mensions for material component... school construction is being und... taken by the Texas Education Age...

Through an examination of diff... ent schools and in consultation w... school superintendents, architects, ... gineers, contractors and manufac... rers, the researchers hope to assist ... evaluating a concept of modu... shapes and sizes for school build... parts which will effect savings ... design and construction and still ... sure flexibility of design.

They will attempt to set up standa... modules which will be the basic thr... dimensional frame of reference. T... does not mean that all compone... would necessarily come in those ... mensions. A component might ... either a fractional part of a multi... of the basic unit.

The agency will be assisted ... architects and engineers from Sou... west Reasearch Institute, a non-pr... organization with headquarters in S... Antonio. The U.S. Office of Educat... has allocated $166,265 for the proj...



architect:
McCOY & BRADBURY

contractor:
A. N. MINDEN CO.

mason contractor:
GEORGE SPRINKEL

Chehalis Red Norman Brick

. . . distinguishes new St. Rita Catholic Church in Portland's Parkrose District

Large areas of glass were combined with extensive use of beautiful Chehalis Matt Face Red Norman Brick by Architects McCoy and Bradbury to achieve the strikingly effective design of this recent addition to Portland's church community. Chehalis Brick—the Northwest's most distinctive brick—takes pride in having been selected to play such a major role in contributing to the charm and beauty of this distinguished new church building.

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Construction News Bulletin

Vol. 64—No. 1 (PA&B) News Section of Pacific Architect and Builder January 18, 1958

Dorothy McCormick ..... News Editor
Sandra Phillips ..... News Staff
Win Romtvedt ..... Portland Correspondent
Dorene Davis ..... News Staff
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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

●DEMOLITION— Astoria, Ore.

Bids will be opened 10 a.m., January 27, by Oregon State Board of Forestry, 2600 State St., Salem, for razing a building located adjacent to the Astoria-Jewell Highway about three mi. east of Astoria; Inv. No. 1-58. Plans and specifications with Forestry Board at above address. DC 1-14

★PREFABRICATED BUILDING— Baker, Ore.

Award to Merrell Steel Co., 2207 N.W. Front Ave., Portland, $4,740, by U.S. Bureau of Land Management, Interior Bldg., P.O. Box 3861, Portland, for one 26'x128' aluminum covered, knocked-down, prefabricated building with ten overhead swing-up doors on one side and ten skylight panels, fob Baker. Bids were opened December 27.
WB 1-8. Previous report 12-21

●SCHOOL ADDITIONS— Beaverton, Ore.

Bids will be opened 8 p.m., January 30, by Barnes School District No. 57Jt., Washington County, Francis A. Hall, clerk, at Cedar Hills Elementary School, 11640 S.W. Parkway, Portland, for 90'x60' play building at Barnes School, 13730 S.W. Walker Road, Beaverton, and for addition of six classrooms and multipurpose room at West Tualatin View School, 8800 S.W. Leahy Road, Portland. Separate bids on each project. Plans with James C. Gardiner, architect, 3158 S.W. 87th Ave., Portland. $50 deposit each project. Certified check, cashier's check or bid bond 10%.

BARNES SCHOOL—Play building will contain multipurpose room with stage, with dressing rooms showers and lockers underneath the stage; concrete block and frame exterior walls; glued laminated beams with 2"x4" laminated deck roof; built-up roofing; aluminum sash and wood stopped in glass; two gas-fired unit heaters; incandescent lighting; dressing rooms have terrazzo floors, structural clay tile walls and aluminum tile ceilings; main floor has grooved plywood panelling, acoustical tile ceilings and asphalt tile flooring.

WEST TUALATIN VIEW SCHOOL—Addition includes multipurpose room with stage and dressing rooms underneath stage, six new classrooms, two new lavatories for boys and girls, new principal's office; one classroom will be remodeled for health room and work room. Multipurpose room has SCR brick exterior walls and glued laminated beams with 2"x4" laminated deck; classroom section has wood frame walls, glued laminated beams and 2"x6" laminated decking. Built-up roofing; aluminum sash; acoustical tile ceilings; asphalt tile flooring; sheet rock walls and grooved plywood wainscots hot water heating from existing oil-fired boiler with unit ventilators in classrooms; incandescent lighting; glazed block walls and terrazzo floors in dressing rooms.
WB 1-10. Previous report 10-12

★HOUSE TRAILER PLANT— Bend, Ore.

Award to Lloyd C. Blair, Fort Worth, Texas, $135,000, by Cletus C. Henslee, owner, Arlington, Texas, for construction of a steel house trailer manufacturing plant on a one-acre site in Bend. The plant will incorporate concrete slab flooring, steel roofing and gas heating system.

Clearing is underway by Murray Bros. Construction Co., 1260 E. 1st, Bend, at the site of the proposed Henslee Mobile Home Manufacturing Co. plant at the north end of Bend. The plant will be completed about May 1. SC 1-11. Previous report 1-3

PARSONAGE— Butteville, Ore.

The Congregational Church in Butteville has purchased land adjoining the present church as the site for future construction of a parsonage. SC 1-15

CAFE AND TAVERN— Chemult, Ore.

Plans are being considered by owner Lew Williams of Chemult to rebuild the LaCentre Cafe and Tavern on Main St. in Chemult. The structure was destroyed by fire on December 25. ZZ 1-9. Previous report 12-28

WELFARE BUILDING— Dallas, Ore.
(Estimated cost $25,000)

Construction will be started soon by Dr. Floyd Utter, Pioneer Trust Bldg., Salem, on a 2,350 sq. ft., one-story, pumice block building for Dallas. The structure will be leased to Polk County Welfare Dept., according to Earl Loewen, county welfare administrator. DC 1-15

●SCHOOL ADDITION— Eagle Point, Ore.

Bids will be opened 8 p.m., January 23, by Jackson County School District No. 9, Eagle Point, for construction of a masonry block six-classroom addition to Eagle Point Elementary School, Eagle Point. Plans with James K. Hoey, consulting engineer, 56 Quince St., Medford. $25 deposit.

Plans call for classrooms, janitorial and storage space, boys' and girls' toilet rooms, custodian's storage area, covered walkway and play areas. Concrete slab on grade; vertical pipe columns; trussed rafters; some steel beams and girders; built-up roofing; steel sash; glass block clerestory; asphalt tile flooring; acoustical tile ceilings; formica counter tops; ceramic tile in toilets. SP 1-11

POULTRY PROCESSING PLANT— Four Corners, Ore.

Construction underway by Gerald H. Wing, owner of G. H. Wing Poultry and Rabbitry, on a 25'x40' one-story building at 3985 E. State St. to replace the poultry processing plant which was razed by fire last November 14 at that address in Four Corners. Exterior of the building will be metal and a fire deterrent material will be used for the interior finish. The structure will be completely modern., meeting all state specifications for a poultry processing plant, and will be equipped with stainless steel vats and other accessories. SC 1-11

ARMORY— Hillsboro, Ore.
(Estimated cost $150,000)

Construction will start this year on an armory in Hillsboro for the U.S. Army. Both the armed services committees of the House and Senate have approved the Army's program and have budgeted it in their 1958 nationwide program. A site for the building will be acquired as soon as final approval is given by the defense department. SC 1-11

■FAMILY HOUSING—Kingsley Field, Ore.

Additional planholders announced for construction of 70 family housing units at Kingsley Field, Klamath Falls, on which bids will be opened 10 a.m., January 29, by George Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field. Plans with above office. Plans were prepared by Howard R. Perrin, architect, 1121 Main St., Klamath Falls.

Additional planholders: Allied Construction Co., Inc., Box 124, Parkwater Station, Spokane, Wash.; Mathews Bros. Builders, 243 Lorella Way, Eugene.

Units are to be of standard construction with concrete floorings; slab on grade; wood flooring; wood frame construction with truss-type roof. Alternates call for masonry fireplaces, hardwood strip flooring instead of hardwood block floors, ceramic tile floors and base, wainscot instead of drywall, lath and plaster interior walls instead of drywall, clothes washers and dryers. Other

items include folding doors, sliding glass doors, window shades and traverse rods, plastic skylight and sliding screens, painting, millwork, vinyl tile flooring, kitchen appliances. Other work includes electrical distribution and street lighting, storm and sanitary sewers, water distribution; television system, grading.

ZZ 1-10. Previous report 1-8

●OIL STORAGE BUILDING, TANK, PUMP— Klamath Falls, Ore.

Bids will be opened 2:30 p.m, February 5, by Department of the Army and the Air Force, National Guard Bureau, U. S. Property and Fiscal Officer for Oregon, 504 State Office Bldg., Salem, for construction of oil storage building and gasoline dispensing facilities at Klamath Falls. Specifications with above office.

Principle features of the project include construction of 10'x20' concrete block building for storage of flammable materials; installation of a 1,000-gallon gasoline storage tank and gasoline pump. ZZ 1-14

★COURTHOUSE REMODELING— Klamath Falls, Ore.

A contract has been negotiated with Burkhart Construction Co., 4867 Harlan Drive, Klamath Falls, by Klamath County Court for remodeling and modifying the fourth floor of the Klamath County Courthouse, Klamath Falls. Morrison & Howard, 203 Williams Bldg., Klamath Falls, are architects for the project.

Work includes removing partitions to enlarge the 50'x50' room now used for the county law library to provide an additional 20'x45' equity courtroom. Walled-up cells will be utilized and bookshelves will be extended to the ceiling and a vault type library is planned to provide an additional courtroom. Work is being done on cost plus basis. ZZ 1-15. Previous report 11-8

▲STEAM HEATING SYSTEM— Medford, Ore.

Bids received by Jackson County Court, Courthouse, Medford, for furnishing and installation of a low pressure steam heating system in the county machine shop at 1400 Barnett Road in Medford. Specifications by James K. Hoey, consulting engineer, 56 Quince St., Medford. Bids opened January 8. LOW BID: McLaughlin Heating and Plumbing Co., 203 W. 8th, $12,725. OTHER BIDS: Brownie's Plumbing and Heating, Inc., 510 Crater Lake Ave., $13,220; Stewart Mechanical, Inc., 518 W. 6th, $13,260; Day and Night Plumbing Co., $15,980. All of Medford. SC 1-11. Previous report 12-27

CHURCH— Milton-Freewater, Ore.
(Estimated cost $100,000)

The Wesley Methodist Church, Rev. Donald Campbell, pastor, Main St., Milton-Freewater, is in the process of selecting an architect to prepare plans for a new church to be constructed on property at the west end of S.W. 10th St. in Milton-Freewater. A fund drive will be held next fall, after which time construction will be started on the educational unit, a $50,000 structure.

SP 1-15. Previous report 11-19

●SCHOOL IMPROVEMENTS— Monmouth, Independence, Ore.

Bids will be opened 8 p.m., January 30, by School District No. 13-C, Polk County, Clifford Norris, superintendent, Henry Hill School, S. 5th Ave., Independence, for the construction of a four-classroom addition to the teachers training bldg., Oregon College of Education campus, Monmouth, and for remodeling the 11-classroom teacher training school at Independence. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. $50 deposit. Certified check, cashier's check or bid bond 10%.

ADDITION — The classroom addition at Monmouth will be frame construction with brick veneer exterior; aluminum sash; hollow metal doors and frames; built-up roofing; asphalt tile flooring; lath and plaster walls; acoustical tile ceilings; fin pipe convectors; flush and indirect incandescent lighting fixtures. REMODELING—Work at Independence includes installation of new painted fir cabinets, new plumbing and lighting fixtures, replacement of the terra cotta roof with composition shingles and built-up roofing; some chalk and tack boards; some structural work; alternate for new burner or new gas-fired boiler in heating plant.

WB 1-4. Previous report 11-1

LUMBER MILL— Pendleton, Ore.

A lease on a two-acre site in Pendleton has been offered by the City Council to Harris Pine Mills for its proposed expansion. The Harris firm plans to enlarge its existing plant in Pendleton but wishes to purchase additional property instead of lease it.

DC 1-15

★COURTHOUSE IMPROVEMENTS— Portland, Ore.

Award to Lorentz Bruun, 3636 S.E. 20th, Portland, $1,425, by General Services Administration, Federal Office Bldg., Seattle, for repairs and improvements to the old U. S. Courthouse at S.W. 5th Ave. and S.W. Morrison St. in Portland; Proj. No. SEA-959. SP 1-7. Previous report 1-2

★BUILDING MODIFICATIONS— Portland, Ore.

Award to Ferguson-Boyles Co., 11614 S.E. Stark St., Portland, $6,262, by U. S. Air Force, 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for modifications to building T-729 at the airport; IFB-58-12. Bids opened December 16.

WB 1-8. Previous report 11-30

★LIGHTING MODIFICATIONS— Portland, Ore.

Award to Allied Electrical Construction Co., 6115 N.E. Holladay St., Portland, $4,448, by U. S. Air Force, 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for modification of lighting in buildings T-201, 407, 701, 721, 736, 747 and 1114, at the airport; Inv. IFB-58-20. Bids opened December 26.

WB 1-8. Previous report 12-17

★REHABILITATE SHOWERS— Portland, Ore.

Award to Russ Todd, 9335 S.W. Fir Grove Lane, Portland, $6,337, by U. S. Air Force, 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for rehabilitation of showers in buildings T-205, 206, 207, 209, 222, 223, 305, 408, 413, 414, and 415; IFB-58-17. Bids opened December 26.

WB 1-8. Previous report 12-17

★BUILDING RENOVATIONS— Portland, Ore.

Awards by U. S. Air Force, Procurement Office, 337th Fighter Group, Portland International Airport, Portland, for rehabilitation of the interior of Bldg. T-518; Inv. No. IFB-58-13, and for repairing flooring in six airmen's dormitories; Inv. IFB-58-14. AWARDS —BLDG. T-518: Raymond B. Ems, 13385 S.W. 72nd Ave., Tigard, $7,368. FLOORING: Joe Johnson Linoleum Co., 540 S.E. 78th Ave., Portland, $7,200. Bids opened December 27.

WB 1-8. Previous report 12-6

★INTERIOR PAINTING— Portland, Ore.

Award to Paint Masters, Portland, $3,500, by U. S. Air Force, 337th Fighter Group, Portland International Airport, Portland, for painting latrines and toilet partitions in 59 buildings at the airport; Inv. IFB-58-19. Bids opened December 19.

WB 1-8. Previous report 12-17

UNION BUILDING ADDITION— Portland, Ore.

Plans are nearly complete by James C. Gardiner, architect, 3185 S.W 87th Ave., Portland, for construction of two-story and basement, 2,500 sq. ft. addition to Carpenters Local No. 583, A.F.L.-C.I.O., 7515 N. Brandon St., Portland. The addition will be located on N. Lombard St., and the exterior of the existing building will be remodeled to match.

Reinforced concrete walls; steel columns; laminated wood beams; frame partitions with drywall finish; front of both buildings facing Lombard St. will be faced with insulated panels with imbedded mineral aggregate; aluminum store fronts; steel and aluminum sash; acoustical tile ceilings; plumbing facilities and oil-fired hot air heating on second floor; unit heaters in lower section; incandescent and fluorescent lighting; [illegible] tical tile ceilings; asphalt tile flooring; basement will be used as warehouse, floor, furniture sales room, and second offices.

●ACOUSTICAL TILE— Portland,

Bids will be opened 3 p.m., January by General Services Administration, 126, Federal Office Bldg., 909 1st Seattle, for acoustical tile ceiling rooms, Lloyd Buildings, 729 N.E. Portland; Proj. No. SEA-987. Specifi with above office.

★DEMOLITION OF BUILDINGS— Portland,

Award to Harold G. LaVelle, 1043 Bush St., Portland, $8,300, by Multnomah County Commissioners, John W. West, chasing agent, 504 County Courthouse, land, for demolition of buildings on Lo and 6, Block 7, and Lots 1, 7 and 8, Bl Portland Addition, for clearing right-of- for west approaches for Hawthorne Br Project 296. WB 1-11. Previous repo

★OFFICE BUILDING— Portland,
(Estimated cost $54,000)

Award by Electrical Workers' Local 125, 1115 S.W. 4th Ave., Portland, for struction of one-story, 3,400 sq. ft. steel masonry office building at N.E. 18th and Davis St. Plans by John Storrs, architect, 1125 S.W. 13th Ave., Portland. AWA Ferguson-Boyles Co., 11614 S.E. Stark $52,273. OTHER BIDS: Norman Bull 2805 S.W. 3rd Ave., $52,286; Wilson & D 1016 N.E. 61st Ave., $53,263; Allen C. Law 2520 S.W. Hamilton Court, $53,960; Ba & Kinney, 4200 S.W. 103rd Court, Beave $54,714; Anfelt B. Hansen, 4115 S.E. O St., $54,860; R. A. Motley, 5029 S.E. T St., $55,000. Of Portland except as n Bids opened Janary 3.

WB 1-11. Previous report

HOUSING UNITS— Portland,

Description is given below on th duplex units to be constructed at Colu Villa Housing Project, Portland, on w bids will be received until 2 p.m., Ja 29 by Portland Housing Authority, C McGill, executive director, 8920 N. Wo Ave., Portland, and will be opened 2:1 at Conference Room, Administration B Columbia Villa, Portland. Plans with h ing authority at 8920 N. Woolsey Ave. deposit. Certified check, bank draft, government bonds or bid bond 5%. P by Don Byers, architect, 1620 S.E. Ank St., Portland.

The 20 duplexes will be located in center of the project along a loop off W sey Ave. Five of the buildings will h four bedrooms in each unit, and the will have 3 bedrooms each. Concrete fo dations; wood frame construction; sl and vertical siding exteriors; compos shingle roofs; double-hung wood sash; in lation; drywall interiors; oak floors ex vinyl in kitchens and baths; Formica c boards in kitchens; individual, gas-fi forced hot air furnaces. Contractor w furnish and install plumbing fixtures, water heaters, ranges and refrigerators be furnished by the housing author Service lines have been installed to a p 5' from each building, and the streets h been gravelled and graded.

WB 1-11. Previous report

■ LLOYD CENTER DEVELOPMENT— Portland,

Additional planholders announced for n struction of the Lloyd Shopping Center the 40 square block area between N Broadway and Banfield Freeway, N.E. and 16th avenues, Portland. Bids will opened 2 p.m., February 27, at the Ll Corp. office, 1334 N.E. 14th Ave., Portla Plans were issued to a select list of bidd by John W. Graham & Co., architects engineers, 1426 5th Ave., Seattle. The pro has been divided into four separate proje and contractors may bid on any one or of the jobs.

There will be 90,000 sq. ft. of finish smaller stores; 600,000 sq. ft. of unfinish store areas; 14,000 sq. ft. of undercover skating rink, in the project now up

bids. The various smaller stores will be divided between the first three divisions. Plans also include 1,250,000 sq. ft. of parking structures. The four divisions are as follows: 1—Meier & Frank Department Store; 2—J. C. Penney store; 3—J. J. Newberry store, and 4—Safeway store.

Additional planholders—GENERAL: Henry George & Sons, Hutton Bldg., Spokane; Max J. Kuney Co., N. 120 Ralph St., Spokane; Sound Construction & Engineering Co., 5101 San Fernando Road W., Los Angeles, Calif.

ELEVATORS AND ESCALATORS: Elevator Maintenance, Ltd., 1316 Glendale Blvd., Los Angeles, Calif.; Montgomery Elevator Co., 717 S.W. 12th Ave., Portland; Otis Elevator Co., 2200 4th Ave., Seattle; The Pelle Co., 4922 N. Vineland, North Hollywood, Calif.; Westinghouse Electric, 5528 White-Henry-Stuart Bldg., Seattle.

EXCAVATING AND ROUGH GRADING: J. N. & M. J. Conley, 4332 N.E. Royal Court; Donald M. Drake Co., 1600 N.W. Savier St.; Carl M. Halvorson, Inc., Box 1449; Heintz Construction Co., Box 1806; John L. Jersey, Inc., 3647 S.E. 34th Ave.; Frank Lyons & Co., 5203 N.E. Alberta St. All of Portland. Salem Sand and Gravel Co., 1405 N. Front St., Salem.

UNDERGROUND UTILITIES: Donald M. Drake Co., 1600 N.W. Savier St., Portland; Lord Brothers Contractors, 9233 N. Calvert Ave., Portland; Lent's, Inc., 279 4th St., Bremerton, Wash.; Salem Sand and Gravel Co., Salem; Sam P. Wallace & Co., 2102 Proctor St., Dallas, Texas.

PLUMBING, HEATING, VENTILATING AND AIR CONDITIONING: Lord Brothers Contractors; Temp-Control Corp., 2905 N. Mississippi Ave.; Widmer Plumbing and Heating Co., 900 S.E. Sandy Blvd. All of Portland. Lent's, Inc., Bremerton, Wash.

FIRE PROTECTION: Lord Brothers Contractors; National Automatic Sprinkler Co., 7526 S.W. Macadam; Rushlight Automatic Sprinkler Co., 55 N.E. Farragut St. All of Portland. Barnard Engineering Co., 35 Elmira St., San Francisco, Calif.; Lent's, Inc., Bremerton, Wash.

CENTRAL HEATING PLANT: The Bay Co., 1512 Center St., Tacoma, Wash.; Lent's, Inc., Bremerton, Wash.; Lord Brothers Contractors, Portland; Salem Sand and Gravel Co., Salem.

SKATING RINK REFRIGERATION: Lent's, Inc., Bremerton, Wash.

ELECTRICAL: Christenson Electric Co., 5 N. Mason; Dimitre Electric Co., 133 S.W. 2nd Ave.; W. R. Grasle Co., 437 N.W. 16th Ave.; Tice Electric Co., 2139 S.E. Belmont. All of Portland. Sutton & Frost, 532 Natoma, San Francisco, Calif.

PD 1-14. Previous report 1-2

▲HOSPITAL-CLINIC— Portland, Ore.

Bids received January 10 were under the architects' estimate, and are subject to action from the board of Kaiser Foundation Northern Hospitals in Oakland for construction of the six-story, 80,000 sq. ft. Bess Kaiser Memorial Hospital at N. Greeley Ave. between Alberta St. and Sumner Ave. in Portland. Bids were opened at Kaiser Foundation Northern Hospitals, Sam G. Hufford, business manager, East Vancouver, Wash. Plans were prepared by Wolff & Zimmer, architects, Pearson 4th Ave. Bldg., Portland. BIDDERS: Ross B. Hammond Co., P. O. Box 3091, (Basic) $1,885,532; Henry M. Mason Co., 2206 N.W. Thurman St., $1,886,423; Hoffman Construction Co., 715 S.W. Columbia St., $1,891,360; Donald M. Drake Co., 1600 N.W. Savier St., $1,893,395; Frank C. Ralph & Son, 2204 N.E. Alberta St., $1,936,503; Reimers & Jolivette, Builders Exchange Bldg., $1,938,348; O. R. Wayman, 3125 N.W. Front Ave., $1,947,136; A. V. Petersen Co., 2827 N.E. Glisan St., $1,954,344; Smith-Phillips Co., 7402 S.W. Macadam Ave., $1,978,516; Kuney-Johnson Co., 1266 Mercer, Seattle, $1,990,000; J. C. Boespflug, 1912 Fourth Ave., Seattle, $2,045,031; H. T. Henderson, 1362 Colorado St., Longview, $2,048,435; James I. Barnes Construction Co., 723 Central Bldg., Seattle, $2,100,000. Of Portland except as noted.

WB 1-14. Previous report 1-11

▲SHERATON HOTEL— Portland, Ore.

Bids were received January 13 by Lloyd Corp, Richard Horn, project manager, 1334 N.E. 14th Ave., Portland, for the 300-room, 8-story Sheraton Hotel to be built in the Lloyd Center Development on four-block site between N.E. 9th and 11th avenues and Multnomah and Holladay streets. The bids were taken to Boston by a representative of Sheraton Corp. of America, 470 Atlantic Ave., Boston, Mass., that evening, and an announcement is expected in the near future. Plans by Perry, Shaw, Hepburn & Dean, architects, 955 Park Square Bldg., Boston. Church, Newberry, Roehr & Schuette, 619 Builders Exchange Bldg., Portland, are associate architects.

WB 1-15. Previous report 1-11

RECREATIONAL CENTER — Portland, Ore.
(Estimated cost $8,000,000)

Formal acceptance has been made by the Portland Exposition-Recreation Commission, Carvel Linden, chairman, 623 Park Bldg., Portland, on preliminary plans for the center at the Broadway-Steel Bridge site on the east side of the Willamette River. Plans are by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St.; Moffatt, Nichol & Taylor, structural engineers; Grant Kelley & Associates, electrical engineers, 1008 S.W 6th Ave.; and J. Donald Kroeker, mechanical engineer, 4504 S.W. Corbett Ave., all Portland. Working drawings are to be completed by June 1. For description of project see PCD 12-24. WB 1-15

■ AIR CARGO BUILDING (First Unit)— Portland, Ore.

Planholders announced for construction of the first unit of an air cargo building, which is a north wing addition to the Portland International Airport terminal building, under construction. Bids will be opened 2 p.m., January 31, by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland. Plans with Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. $50 deposit.

Planholders: E. E. Settergren, 3723 S.E. 21st Ave.; Charles S. Camplan Co., 2035 S.W. 58th Ave.; Oscar R. Wayman, 3125 N.W. Front Ave.; Ross B. Hammond Co., P. O. Box 3901; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave.; C. M. Corkum Co., 2630 S.W. 2nd Ave.; A. V. Petersen, P. O. Box 2368; Fred W. Carter Co., 6034 N.E. 60th Ave.; Gene Settergren, 1625 S.E. Woodward; Richard L. Martin, P. O. Box 482, Oswego. Of Portland except as noted.

WB 1-15. Previous report 1-7

●■ BAPTIST CHURCH— Portland, Ore.

Bids will be opened 3 p.m., January 25, by Immanuel Baptist Church, Earl Marks, chairman of building committee, at Earl Marks Co., 2021 N.E. Union Ave., Portland, for a 70'x104', one-story and partial basement church at N.E. 83rd Ave. and Prescott St. Plans by George Guins, structural engineer, 1836 N.W. Overton St., Portland. Select list of bidders.

Planholders: Allen Lawson, 2520 S.W. Hamilton Court; Harry G. Johnson, 7117 S.E. Main St.; Funston Construction Co., 3726 S.E. Hawthorne Blvd.; Beebe Construction Co., 2134 N. Flint Ave.; Wilson & Dean, 1016 N.E. 61st Ave. All of Portland.

Church will include temporary sanctuary seating 153 persons for later use as recreational hall; two educational wings at rear, separated by concrete patio, will contain dining hall and kitchen, furnace room, rest rooms in basement; main floor includes rest rooms and general offices. Reinforced concrete structure, foundation and front wall; SCR brick walls in wings; one vertical redwood wall; one block wall, and one 12" cavity brick walls with large glass areas; glued laminated beams; 2" wood deck; built-up roofing; Montana travertine trim on exterior; aluminum sash; suspended acoustical ceiling in basement; dry wall finish with sound conditioning; one redwood and Marlite wall; acoustically treated ceiling in sanctuary; fireplace; cushioned vinyl plastic floor covering; some carpeting; fluorescent lighting; some wood trim, including railing; existing pews will be used; three hot-air, gas-fired furnaces; cesspool and septic tank; landscaping; parking area.

WB 1-15. Previous report 11-30

■ OFFICE, WAREHOUSE BUILDING— Port Orford, Ore.

Planholders announced on construction of a one-story and no basement, 5,000 sq. ft., block, office and warehouse building on Highway 101 at Port Orford. Bids will be opened 10:30 a.m., January 20, by Coos-Curry Electric Cooperative, Inc., Port Orford, in the co-op's Coquille office. Plans with Robert F. Fisher, architect 422 Hall Bldg., Coos Bay, and 220 N.E. Beacon Drive, Grants Pass. $25 deposit.

Planholders: R. O. Gallia, 1776 Union, North Bend; T. S. and Tom E. Drake, Box 104, Coquille; R. I. Randolph, 3815 Welty Ave., Salem; Fred Jensen, Route 2, Box 639, North Bend; George W. Millett, Jr., 330 Sunset Drive, Eugene; Donald W. Thompson, 3421 Stanton, North Bend; Hampton C. Platt, Box 27, Salem; D. E. Scott, Box 531, Port Orford; Wold Bros., Route 1, Box 238, Bandon.

The building will be 50'x100'. Specifications call for reinforced concrete footings and foundation; concrete slab floors; prestressed roof beams and roof slab; flat roof; precast concrete slabs; masonry partitions; steel and aluminum windows; painted exterior walls; plaster and painted interior wall finish; aluminum exterior and wood interior wall trim; plaster on block partitions; vinyl asbestos tile flooring; acoustical tile ceiling; wood doors and one aluminum overhead door; folding doors; wood and steel cabinets; glass panels; vault door; vermiculite and rigid fiber insulation in block cores; slimline fluorescent lighting; electric baseboard heating system; mechanical ventilation.

DM 1-10. Previous report 12-28

BOWLING ALLEY— Reedsport, Ore.
(Estimated cost $46,000 building, $72,000 equipment)

Construction will start soon by Frank White of Gardiner on a bowling alley in Reedsport, for Lee Killison of Scottsburg, owner of the site and main sponsor of the project. Plans were prepared by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Completion is scheduled for early May.

The building will contain 12 alleys, seating area for spectators and a snack bar. Off-street parking is also planned. The above cost estimate for equipment covers the alleys, service facilities and appurtenant equipment. Automatic pinsetters will be installed. SC 1-11

★ACOUSTICAL TILE— Salem, Ore.

Award to Cascade Acoustics, 1st and Columbia, Gladstone, $160, by Department of Finance and Administration, 1225 Ferry St., Salem, for furnishing and installing acoustical tile in the telephone switchboard room of the State Office Bldg. in Salem; Inv. No. S-6831-57. Bids opened December 23.

SP 1-8. Previous report 12-21

SHOPPING CENTER— Salem, Ore.
(Estimated cost $2,000,000)

Plans announced by Al Isaak & Co., realtors, 3035 Portland Road, Salem, for construction of a shopping center to be located on an 11-acre tract on Market St. between the city limits and the Salem Bypass section of the Pacific Highway, about 2½ mi. from downtown Salem. Largest store in the tract will be a food market for McKay Bros. to occupy 10,000 sq. ft. Other retail outlets in the center will include a service station, ladies' and men's apparel, a drug store, hardware, a shoe shop and restaurant. Space will be set aside for eventual inclusion of a medical center. The supermarket and some of the variety stores are to be ready for business by June, 1959. SC 1-11

●HOUSING REHABILITATION— Springfield, Ore.

Contractors are submitting bids to Federal Housing Administration, Washington, D.C., for rehabilitation of 28 dwellings in the Marylhurst Addition, Springfield. Remodeling work includes installation of new heating systems, new floors and construction of new carports or garages. Fronts will be changed on some of the dwellings. SC 1-14

HARDBOARD MILL— Swisshome, Ore.
(Estimated cost $2,500,000)

Plans are progressing on the proposed 100-ton hardboard mill to be erected at Swisshome. It is thought by Haskins Lumber Co. officials, who will build the mill, that arrangements for the financing will be completed soon. DC 1-14

HIGH SCHOOL ADDITION— Weston, Ore.
(Estimated cost $125,000)

Project has been temporarily postponed by Umatilla County Union High School District No. 8, George Bowers, superintendent, Weston, for construction of a brick veneer addition to the Weston High School. Architect for the project is Charles B. Miller, Bond Bldg., Pendleton. The addition has been planned with concrete floors and hot water heating system.

SP 1-15. Previous report 12-28

WASHINGTON

CENTRAL PARK SCHOOL— Aberdeen, Wash.
(Estimated cost $370,000)

Working drawings are near completion by E. L. Mills & Associates, architects, 308 S. Tacoma, Tacoma, for construction of the new ten-classroom Central Park elementary school located on site of present school, at Central Park, about six mi. east of Aberdeen. Bid call will be contingent on state approval. The building will include provisions for a future wing, doubling the initial ten classrooms. Razing of existing school will be bid as an alternate on the contract for construction of new school.

PD 1-11. Previous report 11-19

SHOPPING CENTER— Bellevue, Wash.
(Estimated cost $500,000)

Bids may be called about the first of February by Highway 10 Development Co., owner, for construction of a three-building shopping center on a five-acre tract at 156th S.E. and Lake Hills, near Bellevue. Plans by Turner & Hargreaves, architects, Exchange Bldg., Seattle. The main building will contain 15,200 sq. ft., the two other buildings each 7,500 sq. ft. Some of the following description may be changed when final drawings are completed.

Concrete slab-on-grade; steel post and glued laminated beams (steel beam alternate); wood joist roof, blanket insulation in roof; pumice block, plate glass, some stone exterior; drywall partitions; acoustical tile ceilings; asphalt tile, vinyl asbestos flooring; fluorescent lighting, incandescent spotlights; gas unit heaters.

The asphaltic concrete parking area and the landscaping will be let under separate contract, after construction begins under this contract. Refrigeration will be under separate contract. Covered walkways will extend from parking area to the buildings, which will house a supermarket, a bank, and various other community-type businesses.

PD 1-15

APARTMENT HOUSE— Bellingham, Wash.
(Estimated cost $50,000)

Construction will start in the spring by Paul H. Johanson, owner-builder, 915 Cornwall, Bellingham, on a two-story and basement stucco apartment building at 490 S. State St. in Bellingham. The structure was designed by the owner and will include two family units and owner's apartment in basement, four units on main level and four units on top story.

ET 1-9

▲ELEMENTARY SCHOOL— Bothell, Wash.

Bids received by Bothell School District No. 46, Marvin Stevens, business manager, Box 128, Bothell, for construction of the five-classroom 7,500 sq. ft. Bothell Primary School at 8639 101st N.E. in Bothell. Plans by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. Bids opened January 10.

Twelve bids received on general, five on mechanical and six on electrical contracts. BIDS — GENERAL: Edmonds Construction Co., 106 Main St., Edmonds, $82,985; Brazier Construction Co., 309 Pontius, $84,000; Parsell & Laber, 11323 E. Riverside Drive, Bothell, $84,777; Ballard Contractors, Inc., 4601 6th N.W., $85,894; A. W. Robertson, 8233 Overlake Drive, Bellevue, $86857; Don Williams & Co., 314 Fairview Ave. N., $87,676; Venne Beauchamp, Box 637, Everett, $87,721; Nelson Building and Contracting Co., 1243 Rainier Ave., $86,857; Clair E. Prescott, 3516 Airport Way, $90,373; Metropolitan Construction Co., 1008 Broadway, Everett, $90,900; Shaffer Construction Co., Box 804, Everett, $92,400; Vaux Construction Co., 7th and Market, Kirkland, $93,900. MECHANICAL: C. F. Massart Plumbing and Heating Co., 4401 Wallingford, $27,126; Navarre Plumbing and Heating, 3839 Stone Way, $27,158; L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., $27,750; Lucken Plumbing and Heating, Inc., 922 Leary Way, $29,995; Hart Plumbing and Heating, Inc., 11553 27th N.E., $30,183. ELECTRICAL: Donald W. Close Co., 2921 13th S.W., $8,640; Chapman Electric, 115 Williams St., Renton, $8,789; Maier's Electric and Appliance, 2008 Hewitt, Everett, $9,200; Lindberg Electric, 4620 Leary Way, $9,369; Tullar Power Construction Co., 3214 W. McGraw, $9,850; Lloyd Larsen Electric Co., 2306 4th Ave., $9,920. Of Seattle except as noted.

PD 1-11. Previous report 1-7

▲SPRINKLER SYSTEM— Bremerton, Wash.

Seven bids received by 13th Naval District, room 100, Bldg. 232, U.S. Naval Station, Seattle, for design and provision of a wet pipe sprinkler system for Bldg. No. 1, including basement, first and second floors, and roof deck, U.S. Naval Degaussing Station, Point Jefferson, Bremerton; Spec. No. 12288/57. Bids opened January 9. LOW BIDS: Sentry Automatic Sprinkler Co., 2716 A St., Tacoma, $4,516; Bay Co., 1512 Center, Tacoma, $4,564; Viking Automatic Sprinkler Co., 1120 8th S., Seattle, $4,835.

SP 1-10. Previous report 12-18

▲ELEMENTARY SCHOOL ADDITION— Brush Prairie, Wash.

Bids received by Hockinson School District No. 98, Clark County, Gilbert Carlson, clerk, in the Hockinson Elementary School, Route 1, Brush Prairie, for construction of a classroom and dressing room addition and completion of a library and miscellaneous work for the existing Hockinson Elementary School. Plans by Coburn E. Ackley, architect, and George Irish, associate, 211 E. 11th, Vancouver. BIDDERS: White Construction Co., 210 E. 18th St., Vancouver, (classroom addition) $27,986, (library completion) $5,820, (total) $33,807; Erick Heikkala, 4512 K... man Ave., Vancouver, (total) $34,478; ... O. Collins, 7017 N. Pacific Highway, ... couver, $35,719; Dick Moll, 415 Shrev... Drive, Vancouver, $37,449. Bids ... January 10. WB 1-15. Previous report ...

▲BANK— Clarkston, W...

Seven bids were received January ... held for further study by National ... Commerce, Seattle, for construction ... two-level, 10,119 sq. ft. reinforced ... bank on the corner of 6th and Elm, C... ston. Plans by George W. Stoddard-... gard & Associates, architects, 1120 ... Ave., Seattle. PD 1-14. Previous report ...

OFFICE BUILDING REMODELING— Dayton, W...

Work is underway by Carl Rowe, ... tractor, on remodeling the office bu... at 210 E. Main in Dayton, for Col... County Grain Growers. The work wi... clude interior and exterior remodeling ... enlarging of office space.

BC

ELEMENTARY SCHOOL— DuPont, W...

Working drawings are underway by ... Pearson & Richards, architects, 20... Stadium Way, Tacoma, for an eleme... school on Fort Lewis reservation, for ... Pont-Fort Lewis School District No. ... 127, DuPont.

PD

■ HOUSING PROJECT— Ephrata, W...

Planholders announced for construction ... Low-Rent Housing Projects Nos. WASH ... at Ephrata, WASH 14-5 at Quincy and W... 14-6 at Soap Lake, consisting of du... dwelling units and site development wor... sites in the respective cities. Bids wi... opened 2 p.m., January 28, by the Ho... Authority of Grant County, Harvey ... executive director, Administration B... Victory Terrace Project (Box 296), Eph... Specifications with above office. Plans ... also on file at the office of John L. Ma... & Associates, architects, 636 1st Ave. ... Ephrata.

Planholders: Olympic Construction ... Box 679, Moses Lake; Westover & Hope, ... 5608, Quincy; Kane, Randolph & Co... Soap Lake; George Bolin, Box 264, ... Lake; Oelke Construction Co., 1547 B ... Ephrata; Ephrata Plumbing and Hea... Box 908, Ephrata; Coast Sash and Door ... 1002 E. F St., Tacoma; Fairbanks Contr... tion Co., 308 Gumwood, Moses Lake; B... Builders, Box 914, Ephrata; J & M Ele... Box 337, Ephrata; Stanek's Nursery, E. ... 29th Ave., Spokane; Carl Carlson, 1162 ... S.W., Ephrata; Cherf Bros. & Sandkay, ... 938, Ephrata; R. L. Perryman Constru... Co., Box 144, Quincy; Reliable Plumbing ... Heating, Box 1215, Quincy; Ephrata P... Co., Box 1154, Ephrata; Hansen and ... mans, joint venture, 1423 C St. S.W., Ephr... Yager Construction Co., 1st and A ... Ephrata; Spencer Construction Co., 46... Garibaldi St., Hillsboro, Ore.; Hale Contr... tion Co., Box 782, Pasco; Grant Co... Plumbing and Heating, Box 1567, M... Lake; Paul Wisner, Route 6, Wenatchee; ... W. Evans, Box 387, Quincy; Don Swarts, ...

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E. Broadway, Moses Lake; Royal Co., Inc., Box 166, Kennewick.
SP 1-14. Previous report 12-31

▲**ARMORY—** **Everett, Wash.**

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of an 11,600 sq. ft. reinforced concrete 100-man Army Reserve training center on a 3.8-acre tract at the northeast corner of 12th St. and Rainier Ave. in Everett; ENG-45-108-58-30. Bids opened January 14.

Nine bids received. LOW BIDS: Clair E. Prescott, 3516 Airport Way, Seattle, $245,033 (basic), $11,734 (additives), $256,767 (total); John H. Sellen Construction Co., Inc., 228 9th N., Seattle, $249,392, $11,377, $260,769; Newland Construction Co., Box 230, Everett, $248,918, $13243, $262,161. Government estimate, $230,805, $15,391, $246,200.
SP 1-15. Previous report 1-10

●**FAMILY HOUSING UNITS—** **Fairchild AFB, Wash.**
(Estimated cost $4,000,000 to $5,000,000)

Bids will be opened 2 p.m., February 11, by U.S. Air Force, at the base theater, Bldg. 600, Fairchild AFB, for construction of 250 family housing units at the base.

Plans were prepared by Architects Bassetti & Morse, Tower Bldg., Seattle and McClure & Adkison, Sherwood Bldg., Spokane.

Plans may be obtained from the procurement office at the base. $100 deposit.

The housing is being constructed for the Strategic Air Command. In the officers' area, the housing consists of the following: 12 two-bedroom Type 3, 3A duplexes; 52 three-bedroom Type 4, 4A duplexes; and 28 three-bedroom Type 5, 5A single units. In the airmen's area, the units are: 60 two-bedroom Type 1, 1A duplexes; 90 three-bedroom Type 2, 2A duplexes; two two-bedroom Type 3, 3A duplexes; four three-bedroom Type 4, 4A duplexes; and two three-bedroom Type 5A single units.
SC 1-14. Previous report 11-30

SCHOOL ADDITION— **Federal Way, Wash.**
(Estimated cost $80,000)

Plans will be complete about January 31 by Lea, Pearson & Richards, 240 Stadium Way, Tacoma, for a two-story and no basement, 55'x60', frame addition to Federal Way High School. Bids will be called by Federal Way School District No. 210, Kenneth C. Jones, superintendent, Federal Way. $25 deposit on plans when available.

Concrete footings and foundation; 6,600 sq. ft.; concrete slab on grade; timber trusses, steel joists and columns; flat mill roof; frame partitions; wood windows; brick veneer exterior, plaster or plasterboard interior wall finish; wood trim; asphalt tile flooring; drywall acoustical ceilings; folding doors, glass panels, blackboards, skylights; blanket insulation in roof and walls; connection to existing steam heating system, heavy oil fuel; unit vents.
SP 1-11. Previous report 12-12

ELEMENTARY SCHOOL ADDITION— **Federal Way, Wash.**
(Estimated cost $120,000)

Bids will be called about February 1 rather than January 15 as previously planned by Federal Way School District No. 210, Kenneth C. Jones, superintendent, Federal Way, for construction of a 7,200 sq. ft. addition to the south of Lakeland Elementary School, corner of Neal and Hinkle Roads, Federal Way. Working drawings are nearing completion by John W. Maloney, architect, 754 Central Bldg., Seattle.
SP 1-15. Previous report 12-24

TOWN HALL— **Ferndale, Wash.**
(Estimated cost $60,000)

A special levy will be placed on the March 11 ballot by Town Council, Town Hall, Ferndale, to finance replacement of the present town hall building in Ferndale. Tentative plans call for a levy to provide about $15,000 annually over a four-year period.
ET 1-15. Previous report 11-29

CAPEHART HOUSING— Fort Lewis, Wash.

Bids will be opened about February 26 by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for construction of 375 units of Capehart family housing, American Lake Capehart Housing, Projects 1 and 2, Fort Lewis; ENG-45-108-58-48. Specifications with above office. Completion time 510 calendar days.

Attention of bidders and prospective Home Mortgage Companies is invited to the fact that these housing units will be constructed under the terms of the said Capehart Housing Act with mortgage insurance by Federal Housing Administration.

All houses are of wood frame construction with wood or hardboard siding; strip shingle and built-up roofing; brick veneer. Wall panels may be shop prefabricated or field fabricated. Work also includes clearing and grubbing; site grading; construction of roads and walks; topsoiling and seeding; construction of water, sewer, electrical and telephone utilities.
SP 1-10

★**POST COMMISSARY— Fort Lewis, Wash.**

Award to Quality Builders, 5220 S. Orchard St., Tacoma, $572,932, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 38,205 sq. ft. Post Commissary building and utilities at Fort Lewis; ENG-45-108-58-35.
SP 1-11. Previous report 12-20

★**ROOFING REPLACEMENT—** **Fort Lewis, Wash.**

Award to ABC Roofing and Siding, Inc., 41 Hinds, Seattle, $3,521, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for replacement and painting of corrugated metal roofing, Bldg. No. AC-9, Gray Field, Fort Lewis; Inv. No. AVI-45-016-58-92.
SP 1-15. Previous report 12-31

★**ANIMAL HOUSE— Fort Lewis, Wash.**

Award to Marvin Construction Co., 112 Lake Louise Drive S.W., Tacoma, $15,999, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for construction of an animal house at Madigan Army Hospital, Fort Lewis; AVI-45-016-58-70.
SP 1-15. Previous report 1-7

▲**ROOF EXTENSION— Geiger Field, Wash.**

Eleven bids received by U.S. Air Force, Procurement Office, Geiger Field, for extending the roof at the officers' club, Geiger Field; IFB-45-614-58-45. Bids opened January 7. LOW BIDS: Seneca Construction Co., N. 2817 Martin, Spokane, $650; A. J. Popp Construction Co., E. 2710 Garland, Spokane, $679; Warner & Brown, 2904 N. Madelia, Spokane, $726.
LL 1-10. Previous report 12-12

▲**BUILDING REPAIR—Geiger Field, Wash.**

Ten bids received by U.S. Air Force, Procurement Office, Geiger Field, for repair of Bldg. Nos. 702A, 733 and 738 at Geiger Field; IFB 45-614-58-44. Bids opened January 7. LOW BIDS: A. J. Popp, E. 2710 Garland, Spokane, $4,797; Seneca Construction Co., N. 2817 Martin, Spokane, $4,892; Edward Kolbar, E. 10821 Valleyway, Spokane, $4,999. LL 1-10. Previous report 12-12

●**GRADE AND HIGH SCHOOL—** **Kahlotus, Wash.**
(Estimated cost $320,000)

Bids will be opened 8 p.m., February 11, by Kahlotus School District No. 56, Carl Johnson, superintendent, Kahlotus, for construction of a new masonry and glass grade and high school plant at Kahlotus. Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. $15 (general) and $5 (mechanical and electrical) deposits.

The school plant will include a four-classroom elementary school, a six-classroom high school, a farm and industrial arts shop, a multipurpose-cafeteria-auditorium unit, and a central heating plant. Demolition of the existing building is involved in the project.
SP 1-11. Previous report 11-20

■**JUNIOR HIGH SCHOOL—** **Kennewick, Wash.**

Additional planholders announced for construction of a 29-classroom junior high school on a 20-acre site at W. 4th Ave. and Tweedt St. in Kennewick. Bids will be opened 7:30 p.m., January 21, by Kennewick School District No. 17, Edward F. Bloom, superintendent, 500 S. Dayton St., Kennewick. Plans with John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima.

Additional Planholders — MECHANICAL: Basin Sheet Metal, 215 W. Lewis, Pasco. ELECTRICAL: Lloyd Larson Electric Co., 2306 4th Ave., Seattle; Brown-Johnston, Inc., N. 118 Lincoln St., Spokane.
SP 1-10. Previous report 1-7

SCHOOL EQUIPMENT— Kent, Wash.

A recommendation has been made by a citizen's advisory committee, that directors of Kent School District No. 415, 9800 Kent-Black Diamond Road, Kent, place on the March 11 ballot a special tax levy to finance purchase of school equipment and acquisition of sites for future school construction.
DC 1-7

LIBRARY— Kent, Wash.

Bonds in the amount of $100,000 will be voted upon in the March 11 election to finance purchase of a site and construction of a building to house the city library. At the present time the library is located in the city hall.
DC 1-15. Previous report 2-22

●**HANGAR ELECTRIFICATION—** **Larson AFB, Wash.**

Bid opening established as 2 p.m., February 11, by Corps of Engineers, Walla Walla office, Bldg. 602, City - County Airport, Walla Walla, for ramp and hangar electrification at Larson AFB, Moses Lake, Wash.; ENG-45-164-58-16. Specifications with above office.

Work will consist of constructing one diesel engine generator building with two 150-kw generators, two 300-kva platform-mounted and one double 300-kva pad-mounded substations; modifying exterior and interior electrical service for hangars, which includes panel box, magnetic contractors, conduit, conductor, wall-mounted 240/416 volt receptacles; constructing electrical service for future aircraft shelters which includes removal and replacement of concrete paving, underground service, concrete encased ducts with pavement receptacles. Work to be completed within 240 calendar days.
SP 1-10. Previous report 1-7

P E PLANT— Marysville, Wash.
(Estimated cost $715,000)

Bids will be called late in February by Marysville School District No. 25, Marysville, for construction of a two-story physical education plant, including a cafeteria, on the site of the existing high school at 1527 7th in Marysville. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. The plant will provide space for two gymnasiums with a divisional partition; two locker rooms; laundry facilities; foyer area; rest rooms; additional teaching stations on second floor.
HH 1-15. Previous report 12-10

■**HIGH SCHOOL ADDITION—** **Mercer Island, Wash.**
(Estimated cost $140,000)

Planholders announced for construction of a one-story, 10,000 sq. ft. multipurpose building addition to the high school at 4136 92nd S.E., Mercer Island. Bids will be opened 2 p.m., January 22, by Mercer Island School District No. 400, Box 215, Mercer Island. Plans with Bassetti & Morse, architects, Tower Bldg., Seattle. Addition will be a combination cafeteria and auditorium

Planholders—GENERAL: Ballard Co., 1537 Ballard Way; E. F. Shuck Construction Co., Inc., 535 Pontius; Sanford Wright, Box 809, Everett; Roxbury Construction Corp., 616 Mercer; Cawdrey & Vemo, 3601 Fremont; Don Williams & Co., 314 Fairview Ave. N.; Burien Construction Co., 4126 S.W. 106th. MECHANICAL: Bellevue Plumbing and Heating Co., 102nd and Main, Bellevue; L. G Massart Plumbing and Heating Co., 4501 9th N.W.; George H. Lucken Plumbing and Heating, 922 Leary Way. ELECTRICAL: Industrial Electric Co., 1828 Yale Ave.; Mars Electric, 800 23rd S.; Valley Electric, 126 W. Main, Auburn; Lindberg Electric, 4620 Leary Way. Of Seattle except as noted.
PD 1-10. Previous report 1-2

■**JUNIOR COLLEGE—Mount Vernon, Wash.**

Additional planholders announced for construction of the 110,928 sq. ft. one-story

Skagit Valley Junior College at Mount Vernon. Bids will be opened 8 p.m., January 23, in the high school building, by Mount Vernon Union High School District No. 1, Wendell Phipps, clerk, 314 N. 9th, Mount Vernon. Plans by Hovind, Harthorne & Smith, architects, 1500 Westlake Ave. N., Seattle.

Additional planholders—GENERAL: Anderson Construction Co., Central Bldg., Seattle. MECHANICAL: Rainier Mechanical Contractors, Box 2128, Tacoma; Kaelin Plumbing and Heating, 2111 Center, Tacoma. ELECTRICAL: H. E. Mills Electric, 1511 Cornwall, Bellingham; Fellstrom Electric, 2211 9th Ave., Seattle; Skagit Electric, 623 1st, Mount Vernon; Ewing Electric, 535 Main St., Edmonds; Donald W. Close, 2921 13th S.W., Seattle. SP 1-14. Previous report 1-4

GYMNASIUM FIRE— Omak, Wash.

A fire which occurred January 4 destroyed the gymnasium at St. Mary's Mission in Omak, incurring a $75,000 loss. Flames also destroyed the dormitory which was housed in the west end of the 100' long steel shelled structure. SC 1-11

CITY HALL— Omak, Wash.

The Omak City Planning Commission and City Council have considered three alternatives proposed by H. Brandt Gessel, architect, 214 E. Birch, Walla Walla, concerning the alleviation of congestion at the Omak City Hall, and have favored a suggestion made by Councilman Greg Andrews that a new jail and fire station be built on property immediately north of the City Hall.

Proposals recommended by the architect last December were as follows: (1) Construction of a new city hall at the present location at a cost of $142,000. 2) Construction of new quarters at the present Pioneer Motors location in north Omak at an estimated cost of $156,000. (3) Lease-purchase agreement on the same property with part of the city administration to be moved there and part remaining at the present city hall.

The Planning Commission recommended to the City Council that the architect provide an estimate of cost for the new plan. It would allow some remodeling of present quarters to permit expansion of offices that would remain there. The architect previously said that the present structure was not worth remodeling at a high price.

SC 1-15. Previous report 12-4

■ GRADE SCHOOL— Onalaska, Wash.

Planholders announced for construction of a 14-classroom and multipurpose room elementary school building in Onalaska. Bids will be opened 8 p.m., January 28, by Onalaska School District No. 300, Lewis County, Wilbur Stone, clerk, Administration Office, Onalaska. Plans with McCoy & Bradbury, architects, 7007 Highway 99, Vancouver. $25 deposit. Separate bids on general, mechanical and electrical, or combination bid.

Planholders—GENERAL: K. T. Henderson, 1362 Colorado, Longview; Mason & Robinson, 2004 N.E. 147th Ave., Portland; Coolidge & Sons, 12 E. 1st, Centralia; C. E. Skinner, P. O. Box 706, Orting; J. J. Flaskerud, 2151 Delaware, Longview; Quoidback Construction Co., 1422 Commerce, Longview; I. C. Eggiman, 2221 Spirit Lake Road, Castle Rock; Sanford Wright, 302 Clark Bldg., Everett; Levage Construction Co., Box 2355, Parkland; L. E. Raley, 5709 Evergreen Highway, Vancouver. ELECTRICAL: Friberg Electric Co., 415 S.E. Washington, Portland; Pioneer Electric Co., Longview; James Electric, Chehalis; Wooster Electric Service, Castle Rock. MECHANICAL: J. H. Kelly, 1157 Commerce, Longview; Longview Plumbing & Heating Co., 834 Maple St., Longview; Industrial Plumbing & Heating, 2838 N.E. Columbia Blvd.; Schaffer Plumbing & Heating, 211 Pine St., Kelso; Capital Plumbing & Heating, 424 Jefferson, Olympia; Lent's, Inc., 279 4th St., Bremerton; Kaelin Plumbing & Heating, 2111 Center St., Tacoma; Rowland Plumbing & Heating Co., 929 N. Lombard St., Portland. WB 1-14 Previous report 1-7

★HANGAR MODIFICATION— Paine AFB, Wash.

Award to Lindbrook Construction Co., 21016 Five Corners Road, Edmonds, $16,236, by U.S. Air Force, Procurement Office, Paine AFB, for modification of Hangar 207 by replacing floor and ceiling in maintenance office, patching concrete floor in the machine shop, installing lights in electronic shop, installing electric outlets in hydraulic shop and building an office for the hangar chief at the base; Inv. No. 45-602-58-26.

HH 1-14. Previous report 12-24

★FLOOR, REFRIGERATION MODIFICATION— Paine AFB, Wash.

Award to Metropolitan Construction Co., 1008 Broadway, Everett, $2,469, by U.S. Air Force, Procurement Office, Paine AFB, for modification of base commissary floor and refrigeration; Inv. No. 45-602-58-25.

HH 1-14. Previous report 12-21

★BUILDING REPLACEMENT— Paine AFB, Wash.

Award to Roy E. Rudd, Box 835, Everett, $3,695, by U.S. Air Force, Procurement Office, Paine AFB, for replacement of Bldg. No. 435 at the base; Inv. No. 45-602-58-31.

HH 1-14. Previous report 12-26

● STATION ALTERATIONS— Point Roberts, Wash.

Bids will be opened 3 p.m., January 28, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for border station alterations at Point Roberts; Proj. No. SEA-923. Specifications with above office. SP 1-11

★FOUNDATION REPAIRS— Port Blakely, Wash.

Award to Daniel Solie, Route 5, Box 53, Bremerton, $4,875, by 13th Naval District, Bldg. 232, U.S. Naval Station, Seattle, for foundation repairs, Buildings 8, 9 and A, U.S. Naval Radio Station (T), Battle Point, Bainbridge Island, Port Blakely, Wash.; Spec. No. 12271/57.

SP 1-11. Previous report 1-8

PLANT SCIENCES BUILDING— Pullman, Wash.
(Estimated cost $3,352,000)

Plans will be completed about mid-February by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle, for a two-wing, four-story and basement, 175,000 sq. ft., reinforced concrete plant sciences building across Stadium Way, east of Rogers Field, in Pullman, for Washington State College. It is hoped a construction contract can be awarded by mid-March, with completion scheduled for late 1960 or early 1961. Funds totaling $1,900,000 are available and have been authorized by the State Legislature for the structure, plus $363,000 originally provided in 1955 and reappropriated toward the cost of equipping the building.

Plans call for the main concrete frame and shell to be completed in the first stage of construction, with the majority of the finishing items to be financed through funds to become available in an election later this year (bond issue for construction on campuses of higher institutions).

The building will consist of two main sections, a 420'x84' laboratory wing and a 144'x54' classroom wing containing six classrooms and a 200-person capacity sloping floor lecture room. The unit will also house a computing center.

Aluminum curtain wall exterior, panels to be of porcelain, asbestos-cement or pre-cast concrete; flat concrete roof slab, no beams; concrete bearing wall partitions, and drywall or plaster partitions; asphalt tile, ceramic tile, terrazzo flooring; rigid insulation in roof, rigid and batt insulation in walls.

MH 1-8. Previous report 11-1

PARSONAGE— Pullman, Wash.
(Estimated cost $20,000)

Construction will start this spring by Harry Schmale, 1131 Washington, Clarkston, on a two-story parsonage at the corner of Indiana and Illinois St. in Pullman, for Trinity Lutheran Church, Rev. Karl Ufer, pastor, Pullman. The structure will include three bedrooms and a study. MH 1-9

DAIRY PLANT— Pullman, Wash.
(Estimated cost $288,000)

Washington State College, Pullman, is considering acquisition of additional property, part of which may be used for the proposed wood frame dairy plant construction for the college. Until this issue is decided will not be called for the project. prepared by George M. Rasque & Son tects, Washington Trust Bldg., Spokane legislature has appropriated $288,500 for project. MH 1-9. Previous report

SANCTUARY— Pullman, W

Richard Proctor of Walla Walla has retained by Church of the Nazarene, Dick H. Ivester, pastor, 504 Morton, Pu to prepare preliminary plans for a sanctuary to be constructed on Parad adjacent to the existing church in Pu

STUDENT CENTER REMODELING— Pullman, W

Work will be handled by Leo H. hammer, E. 812 8th, Spokane, who has hired by Rev. Myron Erickson of Pu Baptist Church, 1701 C St., Pullman, alterations to the Roger Williams s center on C St. in Pullman.

MH 1-15. Previous report

FIRE STATION— Quincy, W
(Estimated cost $50,000)

Bids will be called early in April by District No. 3, Earle Simmons, Box Quincy, for construction of a one-story no basement, 8,000 sq. ft., block fire st at Quincy. Plans are being prepared Erwin Riley Gamon, Jr., designer, 409 S Ave., Yakima. Structural, mechanical electrical engineers are Gray & Osb 228 S. 2nd St., Yakima.

Concrete footings and foundation; co concrete slab floors; flat frame roof; b partitions; steel sash; drywall partit asphalt tile flooring; drywall ceilings; doors; 3" batt insulation in ceiling; in trial incandescent lighting; hot water ing system, oil fuel.

IG 1-9. Previous report

★TELEPHONE BUILDING— Royal City, W

Award to L & S Construction Co., Broadway, Moses Lake, by Pacific N phone and Telegraph Co., 1200 3rd Seattle, for construction of a dial teleph building at Royal City. Bids opened Ja ary 3.

One-story, concrete block, 25'x21', c crete floor and footings, frame roof; structure will be erected on a site at alpa and Acacia streets in Royal City; will house dial switching equipment.

SP 1-15. Previous report

★DOOR, WINDOW REPAIR—Seattle, W

Award to Structure Service Co., 1802 view N., Seattle, $4,978, by General Serv Administration, Federal Office Bldg., Sea for door, window and other miscellan repairs at the Federal Office Bldg.; Proj. SEA-896. SP 1-7. Previous report

CAFE ADDITION— Seattle, W
(Estimated cost $3,000)

Bids will be invited the latter part February by the owners of Terry Cafe and Madison, Seattle, for a construction 300 sq. ft. concrete block addition to south end of existing cafe, above addr Plans by George Bolotin, architect, 911 Pine, Seattle. Work will include some e vating.

Concrete slab-on-grade; wood frame, bu up roof; metal sash; mechanical, electr work. PD 1-8. Previous report

▲MAINTENANCE AND REPAIR BUILDING— Seattle, W

Bids received by Board of Public Wo E. G. Henry, secretary, 512 County C Bldg., Seattle, for construction of a o story and mezzanine 25,000 sq. ft. ma tenance and repair headquarters building Ashworth Ave. and N. 128th St., in the Ri Lake area, Seattle. Plans by Durham, A derson & Freed, architects, 1100 Denny W Seattle.

Rigid steel frame; pre-fab concrete pa exterior; wood decking; built-up roof; P tic skylights; steel sash, steel doors; con block partitions; concrete floors; convect unit heaters, fired by low-grade oil.

Fifteen bids received. LOW BIDS: Ge Construction Co., 8539 Interlake, $2

(basic), $232,377 (alt. including deductions); Baugh Construction Co., 922 Poplar Place, $244,940, $233,990; John H. Sellen Construction Co., 228 9th Ave. N., $248,200, $237,350. OTHER BIDS (basic proposals only): H. Halvorson, Inc., 20054 Pacific Highway S., $248,417; Cawdrey & Vemo, 3601 Fremont, $252,294; Hugh S. Ferguson Co., 3028 Western Ave., $254,000; W. G. Clark Construction Co., 408 Aurora Ave., $256,500; Wick Construction Co., 720 N. 35th, $256,900; Dale M. Madden, 3010 E. 163rd, $259,153; Ness Construction Co., 1125 W. 53rd, $260,000; J. B. Warrack Co., 400 2nd Ave. W., $261,700; Anderson Construction Co., 13501 Aurora, $264,220; C & D Builders, Inc., 1619 8th Ave. N., $269,700; Wayne Construction Co., 3812 Stone Way, $273,773; Newland Construction Co., Box 230, Everett, $306,330. Of Seattle unless noted.

A bid was also submitted by Shaffer Construction Co., Box 804, Everett, but was disqualified due to failure to comply with legal specifications. SP 1-10. Previous report 12-28

TRUCK TERMINAL— Seattle, Wash.

Construction started January 8 by W. M. Yeaman, 601 1st St., Yakima, on a truck terminal comprised of two buildings at 2201 6th Ave. S. in Seattle, for Interstate Freight Lines, Inc., 601 Lloyd Bldg., Seattle. Plans were prepared by George Runciman, structural engineer, Lloyd Bldg., Seattle.

One structure, 100' x 194', will provide space for the freight terminal and office and will have tilt-up concrete walls and glued laminated roof beams and columns. The other unit, 60'x70', will be a garage and will be of similar construction. Both will have asbestos-cement board panels and aluminum roof panels.

PD 1-10. Previous report 11-29

■ **ELEMENTARY SCHOOL ADDITION— Seattle, Wash.**

Additional planholders announced for construction of a 20,000 sq. ft. addition to Hilltop Elementary School at 24th Ave. S. and S. 124th St., King County. Bids will be opened 2 p.m., January 21, by Highline School District No. 401, Carl Laudenbach, business manager, 253 S. 152nd St., Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Additional planholders—GENERAL: Riley Pleas, Inc., 522 19th Ave. N., Seattle. ELECTRICAL: Valley Electric, 126 W. Main, Edmonds; Yansen Electric, 421 S.W. 152nd, Seattle. Addition will include two one-story buildings connected by covered walkways to existing school. One building will contain a multipurpose room, kitchen, storage room, administration office and toilet rooms, and the other will have eight classrooms, a storage room and toilet rooms.

Steel frame; concrete slab-on-grade-wood joist and decking in built-up roof, batt insulation in roof; asbestos roofing; bar joists; glued laminated beams; cavity brick exterior; vinyl asbestos, ceramic tile flooring; metal sash; acoustical ceilings; electric heating, unit ventilators, unit heaters, baseboard heaters. SP 1-10. Previous report 1-4

■ **ELEMENTARY SCHOOL ADDITION— Seattle, Wash.**

Additional planholders announced for construction of a 20,000 sq. ft. addition to Hilltop Elementary School at 24th Ave. S. and S. 124th St., King County. Bids will be opened 2 p.m., January 21, by Highline School District No. 401, Carl Laudenbach, business manager, 253 S. 152nd St., Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Additional planholders—GENERAL: General Industries, 107 W. Main, Edmonds. ELECTRICAL: Valley Electric, 126 W. Main, Auburn; Yansen Electric, 421 S.W. 152nd, Seattle.

Addition will include two one-story buildings connected by covered walkways to existing school. One building will contain a multipurpose room, kitchen, storage room, administration office and toilet rooms, and the other will have eight classrooms, a storage room and toilet rooms.

Steel frame; concrete slab-on-grade-wood joist and decking in built-up roof, batt insulation in roof; asbestos roofing; bar joists; glued laminated beams; cavity brick exterior; vinyl asbestos, ceramic tile flooring; metal sash; acoustical ceilings; electric heating, unit ventilators, unit heaters, baseboard heaters. PD 1-11 Previous report 1-4

● **STORE REMODELING— Seattle, Wash.**

Bids will be opened 3 p.m., January 21, in office of Bittman & Sanders, architects, 301 Securities Bldg., Seattle, for remodeling 2,600 sq. ft. of basement area into a retail garment sales room, for Leslie-Hughes retail store, 600 Pine St., Seattle. Plans with the architects. Select list of bidders.

Work includes removal of existing partitions; pumice block partitions; stud and plasterboard partitions with redwood paneling; suspended metal lath and plaster ceiling; incandescent lighting, some fluorescent in alcoves; carpeting by owner; electrically powered air conditioning and heating. A steel pipe, wood tread, circular stairway will be constructed from main floor to basement area.

Planholders: W. G. Clark, 408 Aurora Ave.; Cawdrey & Vemo, 3601 Fremont; Jentoft & Forbes, 927 W. 46th; Baugh Construction 922 Poplar; E. F. Shuck, 535 Pontius; Lockness & Roan Mfg. Co., 5631 Airport Way; Charles David, 5718 Kensington Place. All of Seattle. PD 1-11

OFFICE BUILDING— Seattle, Wash.

As soon as preliminary plans have been approved, working drawings can be started by Durham, Anderson & Freed, architects, 1100 Denny, Seattle, for the proposed office building to be erected for Fidelity Savings & Loan Association on the 60' wide site at 1620 4th Ave., Seattle. It is hoped that leasing arrangements and other details can be completed soon, so that the architects can have working plans underway and completed in order to enable construction during 1958.

Demolition is underway now by McFarland Housewrecking Co., 9360 Forest Court S.W., Seattle, and Overland Construction Co., Inc., 1304 76th N.E., Bellevue, on the Ritz Hotel, the seven-story building now occupying the site.

Preliminary plans call for either a two-story or larger structure, depending upon the company's demands. Type of construction has not yet been decided upon. DM 1-14

■ **ELEMENTARY SCHOOL ADDITION— Seattle, Wash.**

Planholders announced for construction of a one-story four-classroom addition to Burien Heights Elementary School, 1210 S.W. 136th, Seattle. Bids will be opened 8 p.m., January 28, in administration office, by Highline School District No. 401, Carl Lau-

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denbach, business manager, 253 S. 152nd, Seattle.

Planholders: Burien Construction Co., 4126 S.W. 106th; CBS Construction Co., 11115 7th Ave. N.W.; United Construction Co., 3627 Findlay. Of Seattle.

Addition will be a separate unit, connected by covered walks to existing school. Wood frame, concrete slab-on-grade; rigid insulation in flat built-up roof, 3"x6" t&g decking; glued laminated beams; cedar siding; aluminum sash; acoustical tile ceilings; hard board over plaster board partitions; 3/32" asbestos vinyl flooring; Toplite glass block skylights; electric baseboard heating.

PD 1-14. Previous report 1-9

■ **NORTHWEST JUNIOR HIGH SCHOOL—** **Seattle, Wash.**

Planholders announced on construction of the two-level Northwest Junior High School at 15th Ave. N.W. and W. 95th, Seattle. Bids will be opened 2 p.m., February 4 by Seattle School District No. 1, 815 4th Ave. N., Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Separate contracts for general, mechanical and electrical.

Planholders—GENERAL: Ness Construction Co., 1125 W. 53rd; Dahlgren Construction Co., 1700 21st S.; George E. Teufel Co., White Henry Stuart Bldg.; Wick Construction Co., 720 N. 35th. MECHANICAL: Boyker Plumbing and Heating Inc., 2627 Eastlake; Navarre Plumbing and Heating Co., Inc., 3839 Stone Way; Hart Plumbing and Heating Inc., 11553 27th N.W.; L. G. Massart Plumbing and Heating Co., 4501 9th N.W.; University Plumbing and Heating Co., 3941 University Way; Ray N. Erickson, Box 507, Puyallup. All of Seattle except as noted. Additional planholders will be listed as available.

Plans include 40 teaching stations, administration offices, health unit, auditorium, and a gymnasium with locker and shower rooms. Provision will be made for future expansion, involving a park community building and public swimming pool to be either connected to or adjoining the school on adjacent property owned by the city.

Brick, masonry walls and partitions; vermiculite fill insulation in steel framed fireproof steel roof; aluminum window wall, metal panels; concrete slab-on-grade; asphalt tile, vinyl, mastipave flooring; fluorescent, some incandescent lighting; acoustical ceilings; low pressure oil-fired steam heating.

DM 1-14. Previous report 1-8

★**STORE INTERIOR REMODELING—** **Seattle, Wash.**

Award to Gwinn Construction Co., 8539 Interlake, Seattle, by Safeway Stores, Inc., Construction Division, 1200 Westlake Ave. N., Seattle, for remodeling the company store at 2310 W. Spokane St. in Seattle. Plans by Johnston & Campanella, architects, Box 600, Renton. Bids opened December 20.

Work will involve relocation of the meat department, addition of a storage mezzanine and installation of asphalt tile flooring.

SP 1-14. Previous report 12-19

CENTRAL JUNIOR HIGH SCHOOL— **Seattle, Wash.**

Bids will be called following state approval of plans by Shoreline School District No. 412, Myron Ernest, secretary, E. 158th and 20th Ave. N.E., Seattle, for construction of the one-story, 85,000 sq. ft. campus type Central Junior High School, at N. 175th and Meridian, Seattle. Working drawings have been completed by Bindon & Wright, architects, Hoge Bldg., Seattle.

Description: open web bar joist; steel columns; concrete slab-on-grade; steel and aluminum window walls; built-up roofs; rigid insulation in roofs; asphalt tile flooring; double loaded corridors with re-lights; oil-fired central low pressure steam heat, tunnel system distribution. The eight or nine buildings are to be connected by covered walks. There will be an administration and library building, a gymnasium, a cafetorium music, shop, science and homemaking buildings, eight-classroom building and a ten-classroom building. Asphaltic concrete parking area for 130 cars is included.

PD 1-15. Previous report 1-4

▲**CEILING REDECORATION—** **Seattle, Wash.**

Bids received by Port of Seattle Commission, 406 Bell St. Terminal, Seattle, for redecoration of ceilings in the administration building, involving application of 1/8" thick acoustical plaster in waiting room and a portion of ticket lobby, at Seattle-Tacoma Airport. Bids opened January 14. BIDS: Gordon Brown, 7100 Rainier Ave., $2,325; Berg Plastering, Inc., 2730 Westlake N., $6,040; Piper & Greenhalgh, Inc., 5612 Highway 99, Everett, $6,358; Joseph J. Jefferson & Son, Inc., 1326 Northlake Way, $6,798; John B. Hunter and Aksel Fiksdal, 1605 22nd, Seattle, $7,937.

SP 1-15. Previous report 1-8

BUILDING ADDITION— **Seattle, Wash.**
(Estimated cost $54,000)

Bids will be called the latter part of January, by Board of Regents of University of Washington, for construction of a 2,800 sq. ft., two-floor addition to the existing Cyclotron Building on the campus. Working drawings are nearing completion by John Graham & Co., architects, 1426 Fifth Avenue Bldg., Seattle.

Contract will include relocation of transformers which are now located on the site of new addition. First floor will be completed now, and will include an electronics shop, offices and a dark room. The second floor will be completed at a later date, and will house additional offices, a chemical laboratory and a drafting room.

Concrete exterior; steel bar joist roof, built-up; rigid wood or cane fiber insulation on concrete slab roof; steel sash; concrete block partitions; plaster, gypsum lath ceilings; acoustical tile on corridor ceilings; fluorescent, incandescent lighting; asphalt tile flooring; steel stairway; metal shower stall, toilet partitions; some millwork; connection with steam heating system, convectors. A small amount of grading and excavating, and construction of an asphaltic concrete walk are included in the contract, which will also involve relocation of existing transformers.

PD 1-15. Previous report 12-18

● **CLUB HOUSE—** **Spokane, Wash.**

Bids will be opened 2 p.m., January 30 by Spokane County Commissioners, Courthouse, Spokane, for construction of a three-story, 40'x80', club house for the Liberty Lake golf course. Plans with Warren Cummings Heylman, architect, W. 1023 Riverside, Spokane. $25 deposit.

Plans call for native stone structure, timber roof and ceiling.

DC 1-14

GRANDSTAND— **Sumner, Wash.**

Preliminary plans are underway by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, for a 2,500-seat grandstand for Sumner High School, on the site of the athletic field in Sumner.

PD 1-15

RESIDENCE— **Tacoma, Wash.**
(Estimated cost $30,000)

Working drawings are underway by James Stuart, architect, 5709 20th Ave. N.W., Seattle, for a one-story wood frame residence near Lakewood Center, Tacoma, for Mr. and Mrs. Dick Elsbree, owners.

PD 1-9

▲**GEORGE CURTIS SCHOOL ADDITION—** **Tacoma, Wash.**

A total of twelve general, nine mechanical and five electrical contract bids were received by University Place School District No. 83, 2708 W. Grandview, Tacoma, for construction of a four-classroom and science laboratories addition to the George Curtis Junior High School building at 8901 W. 40th St. in Tacoma. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma. Bids opened January 8.

Only one bid, that of Korsmo Bros., 5944 Lake Grove S.W., $62,816, who was low on the general contract, was tabulated in time for publication in PCD 1-10. OTHER GENERAL BIDS: Woodard Construction Co., 3842 N. Frace, $63,000; Brynestad Builders, 839 S. Oxford, $63,480; Strom Construction Co., 2141 Fawcett, $64,075; Levage Construction Co., Box 655, Parkland, $66,562; M & O Construction Co., 1323 S. K St., $67,486; Standard Construction Co., 315 E. 25th, $67,920; Construction Engineers and Contractors, 801 Port of Tacoma Road, $68,800; G. Kirkebo & Sons, Inc., 1410 Mountain View, $69,485; Anderson Construction Co., 115 S. 9th, $69,885; Jardeen Bros. Building Contractors, 12[illegible] S. Sprague, $74,479; Mel Pedersen, 117 [illegible] 121st, $76,848.

MECHANICAL: Pease & Sons, 10601 Wa[illegible]ler Road, $21,700; Weber Plumbing and Hea[illegible]ing, Inc., 110 N. Tacoma Ave., $23,940; H-[illegible] Western, Inc., 1714 S. Tacoma Way, $24,49[illegible] Addco, Inc., 1117 A St., $25,787; Urba[illegible] Plumbing and Heating, 2716 A St., $25,79[illegible] Harold Jewell Plumbing and Heating, 69[illegible] 6th, $25,886; Bergh-Griggs Co., 709 Pacific Ave., $26,000; Kaelin Plumbing and Heating Inc., 2111 Center, $26,800; Howard Chapman Plumbing and Heating, 1940 S. Wilkeson, $28,187. ELECTRICAL: Electric Associates Inc., 2911 S. Chandler, $10,495; Jardeen Electric, 1232 S. Sprague, $10,788; Connors Electric Co., 103 S. 28th, $10,845; Ault Electric Co., 4625 N. 11th, $13,676. All of Tacoma.

SC 1-11. Previous report 1-[illegible]

■ **NORTHEAST TACOMA SCHOOL—** **Tacoma, Wash.**

Additional planholders announced for construction of a four-unit campus plan school designed as an addition to the Northeast Tacoma Elementary School at 5412 20[illegible] N.E. in Tacoma. Bids will be opened 3 p.m. January 21, by Tacoma School District No. 10, Toney Shelton, secretary, Administration Bldg., S. 9th and Tacoma Ave., Tacoma. Plans with Johnston, Evans & Parker, architects, 1111 Washington Bldg., Tacoma.

Additional planholders—GENERAL: Reyier & Wick Building Contractors, 1244 [illegible] Sprague. MECHANICAL: Kaelin Plumbing and Heating, Inc., 2111 Center; Stoker Engineering Co., 4320 S. Tacoma Way. ELECTRICAL: Carl T. Madsen, Box 1545; Glasby-Roth Electric Co., 221½ S. 38th. All of Tacoma.

PD 1-11. Previous report 1-[illegible]

▲**BUILDING REMODELING—Tacoma, Wash.**

Bids received in the office of Worthen, Wing, Seifert & Forbes, architects and engineers, 9152 Gravelly Lake Drive S.W., Tacoma, for 6,000 sq. ft. remodeling work including new building front and new restroom facilities, on the building at 925 Tacoma Ave. in Tacoma. Owner is Fred C. Hofstetter, and lessees will be above architects. Bids were opened January 9, no amounts released. LOW BID: Brynestad Builders, 839 S. Oxford, Tacoma. OTHER BIDS: R. H. Wegner Co., 1732 Ventura Drive, Tacoma; Paige Construction Co., 3589 S. C St., Tacoma.

New front for the building will involve cement plaster and plate glass set in wood. This portion of the remodeling, along with the new restroom facilities, is being financed by the owner. The remainder of the work, which is being financed by the lessees, will include removal of existing drywall partitions; space for six individual offices, two drafting areas, reception room and lobby; vinyl asbestos tile flooring, carpeting over plywood flooring; consumers heating, unit convectors. Heating and electrical work to be under other contracts.

PD 1-[illegible]

★**GRAIN INSPECTION SHELTER—** **Tacoma, Wash.**

Award to Don Oline Construction, 221[illegible] Marine View Drive, Tacoma, $6,215, by Port of Tacoma, Transit Shed No. 1, Pier 2, Port of Tacoma Terminal, Tacoma, for construction of a 192'x14' grain truck inspection shelter and graveling of a roadway through the shelter.

SP 1-11. Preivous report 1-[illegible]

JUNIOR HIGH SCHOOL— **Tacoma, Wash.**

Working drawings are underway by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, for an 800-student junior high school for Franklin Pierce School District No. 402, 11002 Portland Ave., Tacoma.

PD 1-[illegible]

JUNIOR HIGH SCHOOL— **Tacoma, Wash.**

Working drawings are underway by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, for an 800-student junior high school for Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma.

PD 1-[illegible]

▲**OFFICE, WAREHOUSE—** **Tonasket, Wash.**

Bids opened by U S. Forest Service, regional supply officer, 729 N.E. Oregon St., Portland, Ore. (Box 4137), for construction

of a ranger station office building and warehouse in Tonasket, Okanogan County, Okanogan National Forest, Wash. BIDDERS: Bennett & Hickey, Burns, Ore., $27,780; King Construction Co., Longview, $29,803; Claude Gann, Okanogan, $32,835; Ruud Construction Co., Spokane, $35,855; Cusicks, Inc., Wenatchee, $35,975; Mann Construction Co., Redmond, Ore., $37,117; Spencer Construction Co., Hillsboro, Ore., $39,752; C. G. Johnson, Bellingham, $41,787. Bids opened January 8. WB 1-10. Previous report 12-26

●CATHEDRAL ADDITIONS— **Yakima, Wash.**

Bids will be opened 2 p.m., February 5, by Roman Catholic Diocese of Yakima, Most Rev. Joseph P. Dougherty, bishop, Liberty Bldg., Yakima, for construction of a 2,500 sq. ft. addition to St. Paul's Cathedral, 12th and Chestnut streets, Yakima, to contain sacristy and baptistry. Plans with Hargis & Goldsworthy, architects, Miller Bldg., Yakima. $25 deposit. Structural engineer is Alexander Hargis, Lloyd Bldg., Seattle.

Bids were opened in October and rejected later on construction of a rectory and of additions and renovations to the existing church structure. Proposals submitted were too high. The church decided to break the work up into smaller sections and issue several bid calls, so as to give small contractors a chance to bid.

The addition which will house the sacristy and baptistry will contain 2,500 sq. ft. Plans call for concrete walls; concrete floors; steel windows; plaster and paint finish in interior walls; plaster on wood lath partitions; quarry and vinyl flooring; plaster, acoustical tile ceilings; wood doors; vault door; new heating system for the entire Cathedral of hot water, oil fired. IG 1-10

ELEMENTARY SCHOOL— Yakima, Wash.

Preliminary plans underway by Gochnour & Marble, architects, Miller Bldg., Yakima, for elementary school at N. 28th and Lincoln avenues in Yakima, for Yakima School District No. 7, Milton Martin, superintendent, Administration Bldg., S. 7th Ave., Yakima. Tentative plans call for a cluster type school having four rooms to each unit.

The architects were retained about two years ago for this school but the project was dropped due to lack of funds. IG 1-11

RESIDENCE— Yakima, Wash.

Construction underway by Louis Irwin, 807 S. 9th St., Yakima, for a residence at 213 S. 35th Ave. in Yakima, for Henry Holmen, 3408 Vendome Ave., Yakima. Structure will have a full basement; cedar siding; flat roof, composition roofing; gypsum lath and plaster interior walls, paint finish, wood trim; oil heating system; two fireplaces. IG 1-15

RESIDENCE— Yakima, Wash.
(Estimated cost $20,000)

Construction to start immediately by Tilman G. Nelson, 415 N. 52nd Ave., Yakima, for a three-bedroom brick residence at 4402 Richey Road in Yakima, for Kenneth Matson, 6016 Sunset Drive, Yakima. Plaster interior walls with paint finish; mahogany woodwork; hardwood floors; built-up shake roof; oil heating system. IG 1-15

★TENT CAMP FACILITIES— Yakima, Wash.

Award to Beaman Construction Co., 1217 S. 20th Ave., Yakima, $21,488, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for construction of field hospital tent camp facilities, Yakima Training Center, Yakima; Inv. No. AVI-45-016-58-26. SP 1-15. Previous report 12-24

IDAHO

STUDENT CENTER— Caldwell, Idaho

Final approval is expected soon of a $150,000 government loan to aid in financing construction of a student center at College of Idaho in Caldwell. It is hoped that plans can be completed and bids called in time for spring construction, according to Dr. Tom Shearer, college president. DC 1-15

●LDS WARDS— Downey, Idaho

Sub-bids will be received until February 15 by LDS Church Building Committee, 125 N. Main, Salt Lake City, Utah, for work and materials involved in construction of 1st and 2nd Wards at Downey. Plans by Hunter-Brower & Associates, architects, Box 743, Pocatello.

Bids will be received on the following: reinforced steel; miscellaneous iron; cast stone; masonry; sash; glass and glazing; lath and plaster; folding partitions; finish hardware; plumbing and heating; electrical; chalkboards. GH 1-10

ARMORY— Emmett, Idaho
(Estimated cost $85,000)

Construction of the proposed one-story, 8,975 sq. ft. pumice block National Guard armory at Emmett for the Idaho National Guard, is still pending release of federal funds. Plans have been completed by Wayland & Cline, architects, 624 Idaho Bldg., Boise.

Upon allocation of funds bids will be called by Arthur Warren, Commissioner of Public Works, State House, Boise. Mechanical engineer on the project is Donald D. Wisdom, Yates Bldg.; electrical engineer, Terrance O'Roarke, Yates Bldg., both Boise.

Concrete footings and foundation; 104'x 110'; concrete slab floors; timber girders; some glued laminated joists; flat roof; frame, some block partitions; steel sash; painted exterior and interior wall finish; wood trim; exposed masonry, drywall partitions; asphalt tile, ceramic tile flooring; drywall acoustical ceilings; wood and steel doors; wood cabinets; blackboards; blanket insulation in ceiling; incandescent and fluorescent lighting, exit lights; oil fired boiler.
DM 1-15. Previous report 1-25

ARMORY— Gooding, Idaho
(Estimated cost $85,000)

The site selected in Gooding for the new National Guard armory for the Idaho National Guard has been disapproved by the National Guard Bureau of Washington, D.C. Additional land has been purchased and relocation of the building will be accomplished immediately. Plans, prepared by Wayland & Cline, architects, 624 Idaho Bldg., Boise, will then be reviewed again by the National Guard Bureau.

Upon approval of plans and fund allocation, it is expected that bids will be called by Arthur Warren, Commissioner of Public Works, State House, Boise.

Mechanical engineer is Donald D. Wisdom; electrical engineer, Terrance O'Rourke; both in Yates Bldg., Boise.

Concrete footings and foundation; 104'x 110'; concrete slab floors; timber girders, beams, columns; some glued laminated joists; flat roof; frame, some block partitions; steel sash; painted exterior and interior wall finish; wood trim; exposed masonry, drywall partitions; asphalt tile, ceramic tile flooring; drywall acoustical ceilings; wood and steel doors; wood cabinets; blackboards; blanket insulation in ceiling; incandescent and fluorescent lighting, exit lights; oil-fired boiler.
DM 1-15. Previous report 10-23

●MEDICAL CENTER— Kellogg, Idaho

Bids will be opened 7:30 p.m., February 4, in the office of Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane, Wash., for construction of a building in Kellogg for Medical Center, Inc. Select list of bidders. LL 1-14

★HANGAR DOOR REPAIRS— Mountain Home AFB, Idaho

Award to Hall Bros., Box 38, Glenns Ferry, $14,960, by U.S. Air Force, Mountain Home AFB, for repairing hangar door tracks and rollers at the base; IFB 10-603-58-21.
SP 1-11. Previous report 12-27

★CLINIC ADDITION— Mountain Home, Idaho

Award has been made to Max E. Boesiger, Mountain Home, in the amount of $9,988, by Malone W. Koelsch and J. F. Bideganten, owners, for construction of a one-story and no basement, 23'x30' brick veneer addition to the Koelsch Clinic in Mountain Home Construction will start immediately, according to the architects, Wayland & Cline, 624 Idaho Bldg., Boise.

Plans call for concrete footings and foundation; concrete slab floors; wood joists; frame partitions; steel sash; brick and stucco exterior and plaster interior wall finish; plaster with gypsum lath partitions; asphalt tile flooring; acoustical ceilings; wood floors; blanket insulation in roof and walls; incandescent lighting; downflow warm air heating system, oil fired.
DM 1-15. Previous report 11-21

●ENTRANCE VESTIBULE— Twin Falls, Idaho

Bids will be opened 3 p.m., January 31, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for a new entrance vestibule at the U.S. Post Office, Main Ave. and 2nd St. W., Twin Falls; Proj. No. SEA-820. Specifications with above office. SP 1-15

MONTANA

●CHURCH— Baker, Mont.

Bids will be opened 8 p.m., January 31, by American Lutheran Church officials, in the old church building, Baker, for construction of a new church at Baker. Plans with Carlo DiCicco, architect, Box 454, Bozeman. General, mechanical, electrical and painting contracts to be bid. EE 1-10

ELEMENTARY SCHOOL— Billings, Mont.

Bids will be called late this winter by Yellowstone County School District No. 2, Billings, for construction of an elementary school northeast of Billings. EE 1-14

WATER PLANT BUILDING—Billings, Mont.

Date of bid opening will be set soon by City Council, City Hall, Billings, for construction of a one-story and no basement, 2,500 sq. ft. maintenance and personnel building at the Billings Water Plant. Plans were prepared by Gene E. Trotter, architect, 1222 N. 27th, Billings.

Solid masonry cavity walls; 24,600 cu. ft.; concrete floors; concrete girders, beams, columns; prestressed roof tees; masonry partitions; aluminum sash; brick exterior, con-

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crete block interior partitions; exposed masonry partitions; concrete flooring; exposed doors; wood cabinets; monorail included; fluorescent lighting; warm air heating system, gas-fired.
DM 1-15. Previous report 12-27

SCHOOL— Billings, Mont.

Chandler C. Cohagen, architect, Hedden Bldg., Billings, is preparing plans for an elementary school to be constructed east of Billings for Yellowstone County School District No. 41, Billings. Bids will be called late this winter. The district recently sold $45,000 in bonds to finance construction. EE 1-15

★COUNTY HOSPITAL— Butte, Mont.

Silver Bow County Commissioners, Courthouse, Butte, have passed a resolution to accept the low bids for construction of the county hospital if the Federal Government grants approval. Bids were received December 20 by the commissioners for the three-story hospital building and a personnel residence at Howe Ave. between Yale and Princeton streets in Butte. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite, Butte. Low bids received were as follows: Cahill-Mooney Construction Co., 1220 E. Front, Butte, $1,184,860 (general); Reardon Plumbing and Heating Co., 129 E. Park Ave., Butte, $365,799 (mechanical); Bozeman Electric, 213 E. Main, Bozeman, $95,386 (electrical).
EE 1-10. Previous report 12-24

★HIGH SCHOOL ADDITIONS— Deer Lodge, Mont.

Awards announced by Board of School Trustees, Powell County High School, Deer Lodge, for construction of a partial two-story, 25,275 sq. ft. addition to the high school and for some alteration work in the existing building at Deer Lodge. Plans by Fox, Balias & Barrow, architects, Savings Center Bldg., Missoula. Bids opened January 8. GENERAL (13 bids received)—AWARD: Gordon Construction Co., 821 Mount Ave., Missoula, $293,547. 2ND LOW: Matelich Construction Co., Box 456, Kalispell, $297,000; Cerovski Cement Products, Inc., 204 W. McKinley, Lewistown, $306,000. MECHANICAL—AWARD: William G. Schmidt & Son, 406 E. Park Ave., Anaconda, $73,370. 2ND LOW: Byers Plumbing and Heating, 1618 E. Lyndale Ave., Helena, $73,400. 3RD LOW: Reber Plumbing and Heating, 805 N. Main, Helena, $39,989. ELECTRICAL—AWARD: Palmquist Electric Co., 420 N. Main, Helena, $37,011. 2ND LOW: Sundberg Plumbing and Electric, 102 E. Park, Butte, $37,300. 3RD LOW: Bonnes Electric Co., 6 S.Park Ave., Helena, $37,900. KITCHEN EQUIPMENT—AWARD: Northwest Fixture Co., 424 N. 32nd, Billings, $6,559. The low bid on laboratory equipment, $21,887, submitted by Colborn School Supply Co., 2706 Montana Ave., Billings, has been taken under advisement.
SC 1-11. Previous report 12-26

■ILAS BUILDINGS, UTILITIES— Glasgow, Mont.

Planholders announced for construction of ILAS facility, including new buildings and an addition to an existing building, and utilities, including hardstands, electrical distribution, fencing, roads and drainage, at Glasgow AFB; ENG-45-164-58-14. Bids will be opened 2 p.m., January 21, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla. Specifications with above office.

Planholders (Prime Contractors): Lowe Construction Co., 2325 9th Ave. N., Box 1956, Billings; Morgen & Oswood Construction Co., Box 225, Glasgow; Rainbow Electric Co., 2220 River Drive, Great Falls; Robertson & Cave, Inc., Box 1488, Great Falls; Commonwealth Electric Co., Box 2067, Lincoln, Nebr.; F. C. Wood Co., 2150 N. 1st, Hermiston, Ore.; The Carroll Co., Inc., 1826 N.E. 40th Ave., Portland, Ore.; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland; Northwestern Engineering, Box 1392, Rapid City, S. Dak.; Mortensen Construction Co., 1021 Westlake Ave. N., Seattle; Sceva Construction Co., Inc., N. 2928 Madelia, Spokane; Northwestern Engineering Co., Box 786, Glasgow; Lindbrook Construction Co., 21016 Five Corners Road, Edmonds.
SP 1-10. Previous report 12-24

SCHOOL CONSTRUCTION— Hardin, Mont.

Bond election will be held June 3 by Big Horn County School District No. 17-H, Hardin, on a proposed $854,000 bond issue to finance construction of additional classrooms at Crow Agency elementary school, Hardin elementary school and Hardin junior-senior high school unit.
EE 1-15

●CHURCH— Helena, Mont.

Bids will be opened 8 p.m., January 24, at The Placer Hotel, 21 N. Main, Helena, for construction of the new two-story 63'x35', frame Evangelical Lutheran Church in Helena. Plans with Robert E. Fehlberg, architect, Box 736, Glacier Bldg., Kalispell. $20 deposit. General, mechanical, electrical and painting contracts to be bid.

Church will provide space for recreation, storage, toilets and offices on ground floor; narthex, study, nave, kitchen, chancel and crying rooms on first floor. Building will have glued laminated beams; frame partitions; rustic red cedar exterior; pumice block foundation; built-up roofing; forced warm air heating system.
EE 1-10

EQUIPMENT FOR MOLASSES PLANT— Kalispell, Mont.

An expansion program is underway by Kalispell Feed and Grain Co., 3rd Ave. W. and Railroad, Kalispell. Equipment and a bulk storage tank is being installed for a wet molasses feed mixing plant. The expansion will cost about $5,000.
DC 1-4

★ELECTRICAL WORK—Lame Deer, Mont.

Award to Mike's Electric Service, 1726 N. Main St., Sheridan, Wyo., $9,370, by Area Director, Bureau of Indian Affairs, 804 N. 29th St., Billings, for installation of electrical work at the Headquarters Bldg., Northern Cheyenne Agency, Lame Deer.
SP 1-14. Previous report 12-3

●SCHOOL ADDITION— Saco, Mont.

Bids will be opened February 17 by School District No. 12, Saco, for construction of an addition to the school in Saco. Plans with Gehres D. Weed, architect, Box 183, Kalispell.
LL 1-14. Previous report 12-21

LUMBER COMPANY FIRE— Thompson Falls, Mont.

Fire, believed to have started from an electrical short, caused between $12,000 and $15,000 damage to the re-butt machine and six piles of finished lumber in the planer building at the Thompson Falls Lumber Co. on December 29.
SC 1-4

ALASKA

●EXTERIOR PAINTING— Anchorage, Alaska

Bid opening extended from January 7 to 2 p.m., January 21, by The Alaska Railroad, Anchorage, for exterior painting of buildings at Standard, Dome, Dunbar, Nenana, Clear, Ferry, Carlo, Cantwell, Summit and Gold Creek in Alaska. Specifications may be obtained from the chief engineer in Anchorage, or from A. R. Sessions, special representative of the general manager, room 226, Federal Office Bldg., 909 1st Ave., Seattle. $10 deposit.
AN 1-10. Previous report 12-24

GRADE SCHOOL ADDITION— Anchorage, Alaska
(Estimated cost $250,000)

Plans have been completed by Edwin B. Crittenden & Associates, architects, Box 358, Anchorage, for the one-story and no basement, 60'x180', block, eight-classroom addition to Government Hill Elementary School at Anchorage. Bids will be called soon by Alaska Public Works, Box 1181, Juneau.

Block footings and foundation; concrete slab floors; steel girders, beams, columns; Lofar flat roof; masonry partitions; wood sash; painted block exterior wall finish; exposed masonry partitions; asphalt tile flooring; drywall acoustical ceilings; wood doors; folding doors, blackboards and fire doors; fluorescent lighting; hot water heating system, oil-fired; full ventilating system.
AN 1-10. Previous report 12-28

JUNIOR HIGH SCHOOL—Anchorage, Ala
(Estimated cost $2,250,000)

Plans will be complete in February Edwin B. Crittenden & Associates, architects, Box 358, Anchorage, for the two-st 52,000 sq. ft., block Orah Dee Clark Jun High School to be constructed on a 6 site at Bragaw St. and Glenn, Mt. V Anchorage. Bids will be called by Anch age Independent School District, Don Fridley, assistant superintendent, 1602 H crest Drive, Spenard Branch, Anchora Completion is scheduled for September,

Concrete footings and foundation; b walls; concrete beam and girder, C floors; steel girders, beams, columns; s and Cofar roof deck; concrete stairwa steel sash; painted exterior, gypsum boa interior wall finish; exposed masonry, d wall partitions; asphalt tile flooring; acou tical plaster ceilings; wood cabinets; s doors; special equipment to include fold doors, glass panels, refrigeration, sprinkl system, blackboards, fire doors; batt, rig and fiberglass insulation; fluorescent lig ing; hot water heating system, coal-fir full ventilating system.
AN 1-10. Previous report 12-

NUNAKA VALLEY SCHOOL— Anchorage, Alas
(Estimated cost $400,000)

Plans will be complete about January by Manley & Mayer, architects, Loussa Sogn Bldg., Anchorage, for the one-sto and no basement, 280'x74', concrete blo Nunaka Valley Elementary School in Anc orage. Bids will be called by Alaska Publ Works, Box 1181, Juneau. Completion scheduled for September, 1958.

Several alternates will be included in t bid form, including Alternate A calling a 14-classroom school with 20,100 sq. area. The basic proposal is for a 12-clas room school with 18,000 sq. ft. area.

Concrete footings, concrete block fou dation; concrete slab on grade; glued lam nated beams; flat mill, glued laminated ro concrete stairways; masonry and frame pa titions; wood sash; painted concrete blo exterior, concrete block and marlite in terior wall finish; wood exterior, metal a wood interior trim; exposed masonry a drywall partitions; asphalt tile floori (basic) or vinyl asbestos tile (alternat exposed cedar deck, acoustical tile; wo and steel doors; special equipment includ folding doors, blackboards, fire doors; rig insulation in roof and perimeter wall, bla ket insulation in frame walls; fluorescen lighting; hot water heating system, cru oil fuel; unit ventilators in each classroo with exhaust through roof.
AN 1-10. Previous report 12-

★PREFABRICATED BUILDINGS— Anchorage, Alas

Award to Steel Craft Mfg. Co., Anchorag $40,102, by Civil Aeronautics Administrati 302 Federal Bldg. (Box 440), Anchorage, f furnishing six prefabricated metal build ings, F.A.S. vessel, Seattle, Wash. (Sche 1); Inv. 5-58-47. Schedule 2 calling for furn ishing and constructing six prefabricate buildings at Alaska has not yet been award ed. Low bidder on December 27 was Roar Construction Co., Anchorage, with $168,0

SCHED. 1: Involves furnishing four 32' 40', one 32'x60' and one 32'x80' prefabr cated metal buildings and related part SCHED. 2: Involves furnishing and con structing four 32'x40' prefabricated meta buildings, one at Bettles, one at Moses Point one at Summit and one at Talkeetna; on 32'x60' building at Kenai; and one 32'x8 building at Fairbanks.
AN 1-14. Previous report 1-

ABBOT LOOP, SAND LAKE SCHOOLS— Anchorage, Alask

Plans are being prepared by Edwin B Crittenden & Associates, architects, Box 35 Anchorage, for an eight-classroom schoo in the Sand Lake area and an eight-class room school in the Abbot Loop area o Anchorage. Bids will be called by Anchor age Independent School District, 1602 Hill crest Drive, Spenard Branch, Anchorage.

Both schools will have steel frame; 80' 160'; "T" steel deck; concrete foundation concrete slab on grade; concrete block par titions; hot water heating system.
AN 1-1

GRADE SCHOOL ADDITION—
Anchorage, Alaska

(Estimated cost $250,000)

Bids will be called about February 3 by Alaska Public Works, Box 1181, Juneau, for construction of a one-story and no basement, 60'x180', block, eight-classroom addition to Government Hill Elementary School at Anchorage; Proj. Aaa-50-A-294. Plans by Edwin B. Crittenden & Associates, architects, Box 358, Anchorage.

JU 1-15. Previous report 1-10

UNIVERSITY APARTMENTS—
College, Alaska

(Estimated cost $275,000)

Bids will be called in March by University of Alaska, Ben Atkinson, engineer, Anchorage, for construction of a two-story and basement, concrete block, 12-unit apartment building No. 2 at the university. Plans are being prepared by Edwin B. Crittenden & Associates, architects, Box 538, Anchorage.

Concrete foundation; block walls; plaster partitions; wood sash; bar joists; steel and concrete deck; central hot water heating system.

AN 1-14

MULTIPURPOSE SCIENCE BUILDING—
College, Alaska

(Estimated cost $2,500,000)

Bids will be called about February 5 by Alaska Public Works, Box 1181, Juneau, for construction of a four-story 80,000 sq. ft. multipurpose science building at the University of Alaska in College. Plans by Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage.

Plans call for one two-story wing; one two-story library wing and a mezzanine. Concrete footings and foundations; poured concrete and window walls; concrete on slab, beam and girder floors; concrete girders; flat roof; library and lecture wing have concrete slab and beam elsewhere; masonry partitions; concrete stairways; aluminum windows; fiberglass insulation on outside walls; fluorescent lighting; exterior walls, concrete; interior, plaster; plaster and metal lath partitions, vinyl tile floors; ceramic tile in toilets; acoustical ceilings; wood doors; wod cabinets; folding doors, glass panels and blackboards; baseboard central heating; ventilation system; anemostat air conditioning.

JU 1-14. Previous report 9-18

HIGH SCHOOL— **Dillingham, Alaska**

Bids will be called about February 3 by Alaska Public Works, Box 1181, Juneau, for the Dillingham High School; Proj. Aaa 50-A-235.

JU 1-14

▲INTERIOR PAINTING—
Elmendorf AFB, Alaska

Bids received by U. S. Air Force, Procurement Office, Elmendorf AFB, for interior painting and floor finishing in 91 family apartments (Inv. No. 58-57) and for interior painting and decorating of 290 apartments (Inv. No. 58-58) at the base. Bids opened December 27. BIDS—INV. 58-57: Warren Painting Co., Inc., Box 1124, $37,407; ABC Painting and Decorating, Box 1955, $37,498; Northwest Painting Service, 204 Loussac-Sogn Bldg., $39,979; Clark's Painting and Decorating, Box 1954, $39,658. INV. 58-58: Clark's Painting and Decorating, $111,610; Warren Painting Co., Inc., $114,930; Northwest Painting Service, $115,651. All of Anchorage.

SP 1-10. Previous report 12-11

▲LABORATORY, UTILITIES—
Elmendorf AFB, Alaska

Nine bids were received by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for construction of a 38' frame National Bureau of Standards laboratory building and outside utilities at Elmendorf AFB; ENG-95-507-58-8. Proposals were opened January 7.

Bids were submitted on the following schedules: A—basic building and outside utilities, B—the addition of antennae insulator, C—addition of office No. 8, D—addition of dark room, E—addition of two offices, F—addition of janitor storage room, partitions in four rooms and a workbench.

LOW BID: Curtis & Hoge Construction, 1320 F St., Anchorage, A, $34,826; B, $35,176; C, $36,073; D, $37,985; E, $38,585; F, $40,154. 2ND LOW: James Dalzell Construction Co., Box 3006, Eastchester Branch, Anchorage, $36,772, $37,312, $37,603, $39,235, $40,059, $40,633. HI BID: Schowenwald Construction Corp., Box 3155, Star Route 3, Anchorage, $60,059, $61,251, $62,069, $63,781, $64,658, $65,517. Government estimates: $34,695, $36,144, $36,708, $37,596, $38,403, $39,225.

Structure will have concrete floor and built-up roofing; forced hot-water heating system, oil fired. Outside utilities will consist of water and sewer lines, connection to an existing exterior electrical distribution system, and a buried oil storage tank. Completion time August 31, 1958.

DM 1-10. Previous report 1-4

★DOOR FRAME REPLACEMENT—
Elmendorf AFB, Alaska

Award to Alaska Plumbing and Heating, Box 2119, Anchorage, $6,932, by U. S. Air Force, Procurement Office, Elmendorf AFB, for replacement of 23 metal door frames in Bldg. 41-760 at the base; Inv. No. 65-501-58-38. Bids opened last November.

SP 1-11. Previous report 11-5

RAILROAD DEPOT— **Fairbanks, Alaska**

(Estimated cost $200,000)

Bids will be called later this year by Alaska Railroad, J. H. Lloyd, general manager, Anchorage, for construction of a 6,000 sq .ft., frame and masonry block depot at Garden Island terminal yards in Fairbanks. Plans by Alaska Architectural and Engineering Co., 710 3rd Ave., Fairbanks.

Construction will feature concrete and wood flooring, built-up roofing, and steam heating system. SP 1-15. Previous report 9-14

★HEALTH CENTER— **Hoonah, Alaska**

Award to Stutte & Gloege, Box 1971, Juneau, $29,376, by Alaska Public Works, Box 1181, Juneau, for construction of a one-story 1,130 sq. ft. health center building at Hoonah; Proj. Aaa 50-A-267.

JU 1-11. Previous report 12-20

STEAMSHIP BUILDING FIRE—
Ketchikan, Alaska

A block-long waterfront building owned by the Alaska Steamship Co. in Ketchikan was destroyed by fire on January 1. The loss is estimated at $250,000.

SC 1-4

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

●CLEARING, ACCESS ROADS—
Albany to Blodgett, Ore.

Bids will be opened 2 p.m., January 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing of right-of-way and construction of access roads for Sched. 1 of the Albany-Toledo section of the Santiam-Toledo 230-kv line No. 1, Benton County, Ore.; Inv. No. 8628. Project begins approximately four mi. northwest of Albany, extends about 19.4 miles., and terminates approximately one mi. southwest of Blodgett. Specifications with above office. $5 deposit. Bid bond 25%.

Quantities: 65 sta. of 12' access roads, plus ditches; 180' of 12", 500' of 18", 110' of 24" and 50' of 30" culvert; 120' open top culvert; 4 intercepting dips; 5 c.y. hand-placed riprap; 50 c.y. loose riprap; 240 c.y. gravel; 50 c.y. common excavation for inlet and outlet ditches to culverts not on contract roads; 10 c.y. rock excavation for inlet and outlet ditches to culverts not on contract roads.

SP 1-11

▲SIDEWALK REPLACEMENT—Albany, Ore.

Fred J. Stubbert, 1056 J St., Springfield, submitted the low bid, in amount of $8,022, to Arthur R. Johnson, city recorder, City Hall, Albany, for removal and replacement of about 15,000 sq. ft. of sidewalk. Four bids were submitted for the January 6 opening.

SC 1-11. Previous report 12-27

★CONCRETE PIPE, RETAINING WALL—
Astoria, Ore.

Award to Grimstad & Vandervelt, 1497 9th, Astoria, $1,066, by Department of Finance and Administration, 1225 Ferry St., Salem, for concrete work at the Oregon State Board of Forestry at Astoria, including construction of two concrete catch basins, 300' of concrete curbing, extension of a water line for 50' and construction of a 26' concrete retaining wall on the east side of the headquarters office building; Inv. No. S-6832-57. Bids opened January 8.

CP 1-11. Previous report 1-3

DREDGING— **Bandon, Ore.**

Fred A. Robertson, Bandon, has asked the Corps of Engineers, Portland district, 628 Pittock Block, Portland, for an extension of time on his permit to dredge the entrance to Coquille River near Bandon. The existing permit authorizes dredging to begin 1,500' landward from the outer end of the jetties and extends upstream to the west side of the cable area. A small area along the Bandon waterfront on the south side of the channel and east of the cable area is also included in the authorization. No work is authorized within 100' of the toe of the jetties nor within the cable area.

Colonel Jackson Graham, Portland district engineer, has requested letters concerning the effect continuance of the dredging operation will have on navigation, and asked that they be received in his office not later than January 30.

SP 1-10

★FLOODLIGHT MODIFICATION—
Depoe Bay, Ore.

Award to Cross Logging Co., Box 351, Taft, $1,537, by 13th Coast Guard District, 618 2nd Ave., Seattle, for modifying the floodlight installation at Depot Bay Entrance Channel, Depot Bay; Inv. No. FS-1691.

SP 1-7. Previous report 12-31

●SANITARY SEWER— **Empire, Ore.**

Bids will be received until 5 p.m. and opened at 7:30 p.m., January 21, by City Council, B. T. Vanwormer, manager, City Hall, Empire, for construction of approximately 3,350' of sanitary sewers. Plans and specifications with above office. $25 deposit. Certified check or bid bond 5%.

The proposed work includes a portion of the sanitary sewers. The quantities listed below are approximate as the contract is on unit prices and quantities may be varied.

Quantities: 1,750 c.y. trench excavation; 2,550' of 8" sewer pipe; 800' of 6" sewer pipe; 9 manholes; one acre of clearing and burning.

DC 1-14

▲SITE WORK— **Empire, Ore.**

Six bids received by M. B. Winslow, clerk, Coos County School District No. 9C, Physical Education Bldg., Coos Bay, for dirt moving and leveling on the Madison-Michigan school site in Empire. Bids opened January 8. LOW BID: Morgan Bros., 545 N. Bank Road, Coquille, $13,583. OTHER BIDS: C. P. Tallon, 1941 N.E. Stephens, Roseburg, $16,761; Buchanan Construction Co., 445 W. 6th, Junction City, $17,544; Fred Rouse, Box 501, Coquille, $17,648; Coos Bay Dredging, Box 217, Coos Bay, $18,537; Sig Andersson, 1371 Bayview, North Bend, $19,779.

SP 1-14. Previous report 12-27

DREDGING— Garibaldi, Ore.

Bid call cancelled by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for dredging a mooring basin and entrance channel at Garibaldi, Ore.; CIVENG-35-026-58-96. Bid opening was scheduled for January 23. WB 1-15. Previous report 12-27

★CONSTRUCT GUARD RAILS—Hebo, Ore.

Award to J. C. Denton, Route 1, Beaverton, $5,949, by U.S. Air Force, Procurement Office, 337th Fighter Group, Portland International Airport, Portland, for construction of roadway guard rails on an access road at the Mt. Hebo Air Force Station, Hebo, Ore.; Inv. IFB-58-18. Bids opened December 19. WB 1-8. Previous report 12-17

PAVING— Heppner, Ore.

State aid up to a maximum of $20,000 will be received by the city for paving approximately three blocks of South Court St., Heppner. The City Council of Heppner is planning to start the work this summer. The city will provide necessary rock; the state will pave the street from curb to curb if residents will pay for curb construction. Petitions for the curbing will be circulated soon. DC 1-15

★SEWERS— Hood River, Ore.

Award to Bingen Sand and Gravel Co., Bingen, $19,886, by B. A. Erickson, city recorder, City Hall, Hood River, for installation of sewers in General Sewer District No. 2, with work to be performed in divisions 1, 2 and 3 of the district.

SP 1-11. Previous report 10-29

★CLEARING—Hills Creek Dam Site, Ore.

Award to R. K. Shelton, Glide, $6,960, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for clearing approximately 40 acres of the proposed Hills Creek Dam at the Salt Creek borrow area, Middle Fork Willamette River, 3 mi. southeast of Oakridge; CIVENG-35-026-58-88.

WB 1-8. Previous report 12-24

▲CONTROL TOWER— Kingsley Field, Ore.

Bids received January 14 by 13th Naval District, room 100, Bldg. 232, U.S. Naval Station, Seattle, for construction of a 20'x 20'x64' high steel frame control tower at Kingsley Field, Klamath Falls, Ore.; Spec. No. 12308/57.

Lower portion of the tower will consist of a one-story block building, and the upper portion partially enclosed with metal siding. Work involves concrete, masonry, steel, siding, carpentry, insulating glass, acoustical treatment, plumbing and heating, electrical work and painting.

Six bids received. LOW BIDS: R. I. Randolph Construction Co., 3815 Welty Ave., Salem, $63,198; Thompson & Georgeson, Inc., 1934 S.E. 6th Ave., Portland, $77,600; Pinniger & Watkins, 1430 Klamath Ave., Klamath Falls, $77,650. SP 1-15. Previous report 12-21

●DRILLING WELL— Klamath Falls, Ore.

Bids will be opened 3 p.m., P.S.T., January 29, by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.E. Oregon St., Portland, (P.O. Box 4137), for drilling, casing, sealing, developing and testing of a water well on government-owned site at the Fort Klamath Ranger Station located approximately 32 mi. north of Klamath Falls, on Highway No. 62, Rogue River National Forest. Location of drilling will be staked on the site. Plans with above office, or with Supervisor, Rogue River National Forest, Post Office Bldg., Medford.

WB 1-11

●MODIFY POWERPLANT— Klamath Falls, Ore.

Bids will be opened 2 p.m., P.S.T., January 23, by Bureau of Reclamation, in the office at Klamath Falls for modifying the Enterprise Powerplant, Klamath County near Klamath Falls, Ore.; Spec. No. 200C-373. Specifications with B. P. Bellport, regional director, and W. J. McCrystle, regional engineer, Box 2511, Sacramento, Calif., or D. A. Gray, project manager, Box 312, Klamath Falls. Bid bond 10%. The modifications involve removing all power generating facilities and rehabilitating the remaining structure to serve as a control drop. Completion time 60 days.

Quantities: 50 c.y. excavation; 30 c.y. remove existing concrete; 125 c.y. compacted sand and gravel backfill; 15 c.y. compacted backfill; 150 c.y. grout fill; furnishing and installing 35 flap-valve weep assemblies; 50 c.y. concrete; 85 bbl. cement; 4,500 lb. furnishing and placing reinforcement bars; 2.2 MBM furnishing and erecting timber; furnishing and installing air vent; drilling 7 holes and anchoring dowel bars; removing corrugated metal buildings; removing generator and equipment. DM 1-11

▲SEWAGE TREATMENT PLANT (Primary Units)— Klamath Falls, Ore.

Fifteen bids were submitted to Frank A. Blackmer, police judge, City Hall, Klamath Falls, late January 13, for construction of the primary units of a sewage treatment plant including pumping station, primary settling tanks, digestors and control house at Klamath Falls. Plans were prepared by John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland.

LOW BID: H. G. Carl Construction Co., Box 387, Klamath Falls, $273,798. 2ND LOW: L. F. Henshaw, 2260 Olive St., Eugene, $253,100. 3RD LOW: John Kovtynovich, Eugene, $284,363.

OTHER BIDS: Tom Lillebo Construction Co., Box 365, Reedsport, $285,729; R. I. Randolph Construction Co., 3815 Welty Ave., Salem, $288,082; P. S. Lord, 4507 S.E. Milwaukie, and Carroll Co., 1826 N.E. 40th, Portland $332,249; Marshall Construction Co., Box 1032, Hermiston, $324,850; Riverman & Sons, 1230 N.E. 63rd, Portland, $312,100; Bessonette Construction Co., Box 709, Medford, $324,596; Rushlight Automatic Sprinkler Co., 55 N.E. Farragut, Portland, $342,192; Misco-West Coast, 1121 W. Hanford, Seattle, Wash., $371,385; Shanley Construction Co., 503 Market St., San Francisco, Calif., $347,952; Baldwin Construction Co., Marysville, Calif., $344,925; S & Q Construction Co., 49 S. Linden, San Francisco, $336,744.

The bid of Ausland Construction Co., Grants Pass, Ore., was held up for irregularity in bid bond or check. The bid of John Kovtynovich, the third low bidder, was originally $288,888 but was reduced by telegram to $284,363.

Quantities: 3,000 c.y. structural excavation and backfill; 1,655 c.y. concrete; 220,000 lb. reinforcing steel; furnishing and installing pipe and fittings, plumbing, heating, gas and electrical systems and installing special equipment purchased by the city.

WB, ZZ 1-15. Previous report 1-9

★ROAD CONSTRUCTION—North Bend, Ore.

Award to Buchanan Excavating Co., 445 W. 6th, Junction City, $20,300, by U.S. Forest Service, regional supply officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, for construction of approximately one mi. of Eel Creek Road No. 2324, located approximately 13 mi. north of North Bend, Coos County, Siuslaw National Forest, Ore.

WB 1-10. Previous report 1-3

▲SANITARY SEWER— Portland, Ore.

Bids received by city auditor, Will Gibson, City Hall, Portland, for constructing sanitary sewer in S.W. Troy St. BIDDERS: System Construction Co., 8130 S.E. Tolman St., $4,091; Atlas Construction Co., 9400 S.E. Powell, $4,116; Oscar Stofiel, 14204 S.E. Elderberry Lane, Milwaukie, $4,217; Riverside Construction Co., 12441 S.E. Market St., $4,280; Don Thornton, 2809 W. 21st St., Vancouver, $4,378; B. J. Shepherd & Son, 6810 S.E. Mall St., $4,386; P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., $4,421. Of Portland except as noted. Bids opened January 8. WB 1-10. Previous report 1-4

▲STEEL STANDPIPE— Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for construction of a 860,000 gal. steel standpipe at S.W. 10th Ave., one block south of Vermont St. BIDDERS: American Pipe & Construction Co., 512 N.E. Columbia Blvd., Portland, $61,983; Gunderson Bros. Engineering Corp., 5700 N.W. Front Ave., Portland, $62,645; Pittsburgh-Des Moines Steel Co., 900 Lane, Seattle, $64,600; Hammond Iron Works, Provo, Utah, $68,092; Chicago Bridge & Iron Co., 1318 4th Ave., Seattle, $69,[illegible]. Bids opened January 8.

WB 1-10. Previous report 12-[illegible]

★HIGHWAY SCALE, SCALE HOUSE— Portland, Ore.

Award to Donald W. Thompson, 3421 Stanton, North Bend, $10,213, by Bureau of Public Roads, 757 Morgan Bldg., Portland, for furnishing and installing a highway scale and scale house. Oregon Timber Access Road Project BLM 68-C7, Smith River Road, Bureau of Land Management-Coos Bay District, Douglas County, Ore.

WB 1-11. Previous report 1[illegible]

★BITUMINOUS SURFACING, PAVING— Portland, Ore.

Awards by Multnomah County Commissioners, John W. West, purchasing agent, [illegible] County Courthouse, Portland, for three construction projects. AWARDS—S.E. SALMON ST.: Harold G. LaVelle, 10430 S.E. Bush St., Portland, $2,993. N.E. 77TH AVE.: Parker-Schram Co., Builders Exchange Bldg., Portland, $17,099. S.E. 141ST AVE.: Harold G. LaVelle, $8,620.

WB 1-11. Previous report 12-[illegible]

▲RUBBER HOSE— Portland, Ore.

No bids meeting specifications were received January 9 by U.S. Forest Service, 729 N.E. Oregon St., room 209, Portland, for 72 lengths of suction, smooth bore rubber water hose, and 36 lengths of yard reinforced rubber water hose; Inv. No. 222. It is expected that specifications will be rewritten. WB 1-11. Previous report 12-[illegible]

★SAND, GRAVEL, ROCK— Portland, Ore.

Awards have been made by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing gravel and crushed gravel to all bureaus of the city during 1958: Ross Island Sand & Gravel Co., 4129 S.E. McLoughlin Blvd.; Rose City Sand & Gravel Co., 2806 N.E. 82nd Ave.; Portland Road & Driveway Co., 7295 S.E. King Road, and Logan, Taylor & Co., 7800 N.E. Killingsworth St., all of Portland, will furnish the gravel at unit prices quoted. Award on sand, gravel and crushed rock was announced in PCD 12-31. WB 1-11. Previous report 12-[illegible]

●PUMP CONTROLS— Portland, Ore.

Bids will be opened 2 p.m., January 2[illegible] by city purchasing agent, 208 City Hall, Portland, for 2,300 volt, 3-phase, 60-cycle magnetic pump controllers. Certified check or bid bond 10%. WB 1-[illegible]

●FUSE CABINET— Portland, Ore.

Bids will be opened 2 p.m., January 22, by city purchasing agent, 208 City Hall, Portland, for horizontal fuse cabinet for 2,40[illegible] volt, 60-cycle service. Certified check or bid bond 10%. WB 1-[illegible]

●GATE VALVES, CHECK VALVES— Portland, Ore.

Bids will be opened 2 p.m., January 2[illegible] by city purchasing agent, L. W Rayner, 208 City Hall, Portland, for 4" to 12" iron body gate valves, for 16" to 30" iron body gate valves, and for 3" and 4" flanged horizontal swing check valves. Specifications with purchasing agent. Certified check or bid bond 10%. WB 1-[illegible]

●■GRADING— Portland, Ore.

Bid opening extended from January 17 to 10 a.m., January 31, by Bureau of Public Roads, B. M. French, regional engineer, 731 Morgan Bldg., Portalnd, (Box 3900), for grading 5.410 mi. Oregon Timber Access Road Project BLM 42-A1, B, Cow Creek Road, Bureau of Land Management-Roseburg District, Douglas County, Ore. Revised plans will be issued on the project.

Additional planholders: White Bros. Construction Co., P.O. Box 376, Walla Walla; Elco Co., Route 2, Box 187, Cornelius.

WB 1-15. Previous report 1-[illegible]

■SEWAGE FACILITIES— Portland, Ore.

Additional planholders announced for construction of two sanitary lift stations, one septic tank and drain field, anad one Parshall measuring flume at Portland Inter-

national Airport, Portland. Bids will be opened 2 p.m., P.S.T., January 24, by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Portland. Plans with above office. $20 deposit.

Additional planholders: Phoenix-Matthews Co., 1040 N.E. Baldwin St., Portland; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Tracy Colt Co., 3233 S.E. Steele St., Portland; Russell Espedal Co., 5906 N. Greeley Ave., Portland; C. H. Strong Engineering & Construction Co., P.O. Box 366, Eugene. WB 1-15. Previous report 1-8

▲BRIDGE APPROACHES— Portland, Ore.

Seven bids received by Multnomah County Commissioners, John W. West, purchasing agent, 504 Multnomah County Courthouse, Portland, for construction of the new west approaches of the Hawthorne Bridge in Portland. Plans were prepared by Moffatt, Nichol & Taylor, structural engineers, 1845 N.E. Couch St., Portland. Bids opened January 14.

BIDS: Kuckenberg Construction Co., 11104 N.E. Holman St., Portland, $758,182; General Construction Co., 4850 N.W. Front Ave., Portland, $790,724; Donald M. Drake, 1600 N.W. Savier, Portland, $912,424; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle $931,895; C. H. Strong Engineering and Construction Co., 3871 Royal Ave., Eugene, $981,073; Gibbons & Reed Construction Co., Box 2429, Salt Lake City, Utah, $1,050,022; Carl M. Halvorson, Inc., 10626 S.W. Pacific Highway, Portland $1,076-789. WB 1-15. Previous report 1-4

INDUSTRIAL SITE— Prineville, Ore.

The Prineville City Council has approved the purchase of a 50-acre industrial tract adjacent to the Prineville Railway. The property has 1,380' of track frontage. Most of the property averages a 400' depth along the railroad, and about four-fifths of the tract is usable without drainage or fill. SC 1-14

MEMORIAL PARK— Salem, Ore.

Signatures are being sought by Polk County residents on petitions requesting Polk County Commissioners, Courthouse, Dallas, to obtain approximately 350 acres of land along the west side of the Willamette River from the present Wallace-Albert Marine Park in Salem northward to a point just across stream from the Keizer and Manbrin Gardens area for development of a recreational area. The proposed project would adjoin the present Wallace-Albert park and would be called Wallace Memorial Park.

Considerable diking would be necessary for the project, as well as dredging. A major feature would be a long water racing course and large mooring. Included in the projected development would be a community building; golf course; parking areas (three entrances); group picnic sites; facilities for tennis, archery, badminton, handball, horseshoes, volleyball and softball; experimental gardens; clubhouse; service station; scull house, boat rental and fishing grounds. SC 1-10

●DRAINAGE— St. Helens, Ore.

Bids will be opened 8 p.m., P.S.T., January 28, by City Council, R. E. Singleton, recorder, City Hall, St. Helens, for furnishing drainage and miscellaneous materials. Specifications with above address and with N.W. Haner & Associates, 220 S.W. Alder, Portland. No charge. Bid bond 5%.

Quantities—Sched. 1: 175' of 18" to 30" corrugated metal pipe, asphalt coated; 190' of 43"x27" and 50"x31" pipe arches. Sched. 2: 7,830' of 8" to 30" plain and reinforced concrete culvert and sewer pipe. Sched. 3: 38 pieces of 8" to 24" concrete pipe fittings. Sched. 4: 55 items, 9,400 lb. cast iron rings, coverings and gratings. Sched. 5: miscellaneous materials, namely, 3,800 lb. steel reinforcing bars, 5,760 lb. welded wire fabric, 1,400 sacks type 1 portland cement. DC 1-14

●SEWAGE SYSTEM (Materials)— St. Helens, Ore.

Bids will be opened 8 p.m., January 28, by R. E. Singleton, city recorder, City Hall, St. Helens, for materials for sanitary and storm drainage system in the city. (Construction bids for the sewers and treatment plant will be called in early spring.) Specifications with recorder, or with N. W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland. Bid security 5%. Materials will be required under the following five schedules:

SCHEDULE 1: 175' of 18" to 30" corrugated metal pipe, asphalt coated; 190' pipe arches, 43"x27" and 50"x31". SCHEDULE 2: 7,830' of 8" to 30" plain and reinforced concrete culvert and sewer pipe. SCHEDULE 3: 38 pieces concrete pipe fittings, 8" to 24". SCHEDULE 4: 55 items, of 9,400 lbs. cast iron rings, covers and gratings. SCHEDULE 5: 3,800 lbs. steel reinforcing bars, light; 5,760 lbs. welded wire fabric; 1,400 sacks Type 1 Portland cement. WB 1-15. Previous report 11-14

TELEPHONE FACILITIES—Sunnyside, Ore.

R.E.A. loan for $562,000 approved for Sunnyside Telephone Co., Lambert D. Miller, president and manager, Sunnyside, for improvement and expansion of rural telephone services in Clackamas and Yamhill counties. New construction planned includes dial central offices at Sunnyside and Yamhill, and 24 miles of line. New and expanded dial facilities will be installed in the existing Lafayette building; headquarters facilities in Sunnyside will be used with minor rehabilitation; twenty miles of existing line will be rebuilt. WB 1-8

★CHAIN HOISTS— The Dalles, Ore.

Award to Woodbury & Co., Swan Island, Portland, $2,148, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for four high speed, six-ton capacity chain hoists with double duty alloy steel load chain, fob Seufert (The Dalles, Ore.); CIVENG-35-026-58-75. Bids opened December 2. WB 1-9. Previous report 11-23

▲CAST IRON PIPE— West Linn, Ore.

Bids received by Andy Harila, city recorder, City Hall, West Linn, Ore., for purchase of 5,450' of 6" cast iron pipe. BIDDERS: U.S. Pipe & Foundry Co., Colman Bldg., Seattle, $2.089 per foot; Pacific States Cast Iron Pipe Co., Portland Trust Bldg., Portland, $2.104; Pacific Water Works Supply, 0440 S.W. Porter St., Portland, $2.1394. Bids opened January 8. Award to be made January 15. WB 1-11. Previous report 12-26

▲FIRE HYDRANTS— West Linn, Ore.

Bids received by Andy Harila, city recorder, City Hall, West Linn, Ore., for purchase of six fire hydrants. BIDDERS: Waterworks Supplies Co., 4455 S.E. 24th Ave., $108.40 each; Utilities Supply Co., 7830 N.E. Halsey St., $108.40; Johns-Manville Sales Corp., Terminal Sales Bldg., $122.30. All of Portland. Bids opened January 8. Award will be made January 15.
WB 1-11. Previous report 12-26

STREET LIGHTING— West Linn, Ore.

Bids will be called immediately by City Council, City Hall, West Linn, for installation of seven street lights along Willamette Falls Drive between Sunset Ave. and Willamette. Bid opening date will be announced this week, according to Andy Harila, city recorder. DC 1-14

WATER SUPPLY— West Linn, Ore.

The Robinwood Water District has asked the City Council of West Linn for information on availability of domestic water supplies for the Robinwood area, which lies north of West Linn. A study will be made by the City from data compiled by the district on water needs, delivery and pertinent factors. DC 1-15

WASHINGTON

▲CHANNEL LIGHT REPLACEMENT— Aberdeen, Wash.

Two bids received by 13th Coast District, room 922, 618 2nd Ave., Seattle, for replacing Grays Harbor North Channel light No. 57 in the vicinity of Aberdeen; Inv. No. FS-1697. Bids opened January 10. ONLY BIDS: Grays Harbor Construction Co., 412 S. Park Ave., Aberdeen, $1,875; Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam, $2,130.
SP 1-11. Previous report 12-28

●WELL DRILLING— Alderwood Manor, Wash.

Bids will be opened January 27 by Alderwood Water District, James Davis, secretary, Alderwood Manor, for drilling of permanent wells at sites near Martha Lake and at the district 3,000,000-gal. reservoir in Alderwood Manor. Specifications with above office.

Test wells at the two sites, drilled by L. R. Gaudio, Brown's Point, Tacoma, under a separate contract, have indicated the permanent wells will produce about 1,000,000 gallons of water a day each. A third test well is also being drilled. SC 1-11

ROAD IMPROVEMENTS— Bellingham, Wash.
(Estimated cost $44,000)

Four road projects have been approved by Whatcom County Commissioners, Courthouse, Bellingham, including work on the Anderson Road, Henderson Road, Guide-Meridian and the Duer, Dewey and Van Wyck roads.

Projects as follows: (1) 1/10 mi. on Anderson Road, easterly from the Sumas-Kendall Road, to be covered with 5,069 c.y. select roadway borrow and 1,268 c.y. crushed rock. Estimated cost $9,060. (2) Reinforced concrete pipe and quarry rock at Henderson Road Bridge. Estimated cost $1,320. (3) Guide-Meridian from the Hemmi Road to the Pole Road to be improved at a cost of more than $17,290. (4) Improvement of Duer Road from Hannegan Road to Dewey Road, the Dewey Road from Van Wyck Road to Mount Baker Highway, and the Van Wyck Road from the Hannegan to the Dewey, a distance of 22 miles. Project will include 9,378 c.y. select roadway ballast and 2,345 c.y. crushed rock. Estimated cost $16,650. ET 1-10

BAKER LAKE ROAD— Bellingham, Wash.
(Estimated cost $24,000)

Whatcom County Commissioners, Courthouse, Bellingham, have approved the above final cost estimate on the first phase of improvement to the Baker Lake Road, involving one mi. length of road. Cost for three bridge repair projects and general road work is under consideration. ET 1-10

ROAD WIDENING, RECONSTRUCTION— Bellingham, Wash.
(Estimated cost $17,175)

Whatcom County Commissioners, Courthouse, Bellingham, have approved a road project involving reconstruction and widening of the Doren Road from Deming on the Wickersham Highway easterly for one mile. Project will include raising and widening a bridge on the road.

Work will start soon and will be completed by April 1. Included are 12,960 c.y. select roadway ballast, 1,130 c.y. crushed rock and 740 c.y. excavation. ET 1-11

▲MOTOR GRADER— Bellingham, Wash.

Bids received by Whatcom County Commissioners, Courthouse, Bellingham, for a diesel motor grader with blade for the county road departments. Bids opened January 10. BIDS: N. C. Machinery Co., Box 130, Mount Vernon, $21,284; Howard-Cooper Corp., 5045 4th Ave. S., Seattle, $20,600, $20,040 (alt.), $22,070 (alt.); Columbia Equipment Co., 1240 S.E. 12th Ave., Portland, Ore., $25,044. Above items do not include deduction for trade-in or sales tax.
ET 1-14. Previous report 12-21

●REINFORCED CONCRETE PIPE— Bellingham, Wash.

Bids will be opened 10 a.m., January 28, by Whatcom County Commissioners, Courthouse, Bellingham, for furnishing 118' reinforced concrete culvert pipe to be delivered to two job sites in the county for the pending Henderson Bridge and Lake Louise Bridge projects. Specifications with county engineer, above address. Specifications call for 40' of 60" and 78' of 72" elliptically reinforced concrete culvert pipe. ET 1-14

ATHLETIC FIELD RELOCATION— Blaine, Wash.

The state has agreed to relocate Blaine High School's athletic field from the west to the east side of the proposed state truck route through the city. Plans call for a truck spur off the main freeway where it enters Blaine. The spur will be built due north to the special truck customs station about one mi. east of the main customs and immigration headquarters.

Tentative location of the new athletic site is in an area just southeast of the school buildings. ET 1-11

SEWER SYSTEM— Blaine, Wash.

The Blaine City Council has voted to begin negotiations for a preliminary engineering survey to determine the overall sewage system needs at Blaine. Such a survey is necessary before the city can apply for federal matching funds to help finance a sewage treatment plant. The City of Blaine has been urged to install a new sewer system before the proposed new freeway is constructed. IF 1-14. Previous report 1-14

STEAM PLANT— Cle Elum, Wash.

Studies will be started immediately on feasibility of a steam plant using low-grade coal, in the vicinity of Cle Elum. The State Power Commission will finance the Kittitas County Public Utility District, Cle Elum, in a survey of the possibilities of constructing a coal-fired steam plant at the foot of Lake Cle Elum.

An initial allocation of $100,000 will open the survey. $250,000 was appropriated by the Legislature for this purpose. The steam plant itself would be financed by sales of revenue bonds. DC 1-14. Previous report 9-20

●STREET IMPROVEMENT— Edmonds, Wash.

Bids will be opened 8 p.m., February 18, by City Council, City Hall, Edmonds, for improvement of 3rd Ave. south of Main St., LID No. 82, Edmonds. Specifications with city engineer, above address. HH 1-14

●EARTH LINING, CHUTE REPAIR— Ephrata, Wash.

Bids will be opened 10 a.m., January 30, by Bureau of Reclamation, Box 368, Ephrata, for earth lining and chute repair, Lind Coulee Wasteway, Sta. 0+00 to 15+70, about 5 mi. east of Warden, Adams County, Wash.; Spec. No. 117C-495. Specifications with above office. Bid bond 10%.

Features of the work include: (a) Earthwork for refilling seven test holes in the existing Lind Coulee Wasteway between approximately Stations 0+00 to 9+20. (b) Earthwork required to excavate the existing wasteway between Stations 9+00 and 9+50 for constructing compacted blended earth lining; for placing riprap; and for placing coarse cover over compacted blended earth lining. (c) Earthwork for and repair of existing concrete chute structure between approximately Stations 14+61 and 15+50.16 including the filling of open voids under the structure; removing reinforced concrete in floor slab of the structure; constructing reinforced concrete cutoff wall, sand and gravel filter, concrete pipe drain, and graded gravel filter; replacing reinforced concrete removed from the floor slab of the structure; and replacing barbed wire fencing along both sides of the structure.

Quantities: 800 c.y. common excavation from wasteway; 350 c.y. common excavation for structure; 25 c.y. rock excavation for structure; 350 c.y. backfill about structures; 55 c.y. excavation from borrow; 30 c.y. compacting backfill about structures; 55 c.y. mi. overhaul; 40 c.y. sluiced fill; 560 c.y. compacted blended earth lining; 75 c.y. refill above earth lining; 70 c.y. protective cover; 70 c.y. riprap; 20 c.y. sand or gravel bedding for riprap; 170 c.y. compacted refill of existing test holes; 16 c.y. concrete in structures; 21 bbl. cement; 27 cu. ft. gravity grouting under chute floor; 110 c.y. sand and gravel in drains. SP 1-10

●RADIAL GATE CONTROLS— Ephrata, Wash.

Bids will be opened 10 a.m., January 28, by Bureau of Reclamation, Box 368, Ephrata, for automatic controls for seven radial gate checks, Potholes East Canal, 4th Section, west of Eltopia, Franklin County, Wash.; Spec. No. 117C-494. Specifications with above office. Bid bond 10%. SP 1-11

★EARTHWORK, LINING, STRUCTURES— Ephrata, Wash.

Award to Donald M. Drake Co., 1600 N.W. Savier, Portland, $2,681,004, by Bureau of Reclamation, Box 368, Ephrata, for earthwork, concrete lining and structures for Esquatzel Diversion Canal, Station 0+00 to 555+82, Columbia Basin Project, Wash.; Spec. No. DC-5000.

Features of the work include: (a) Earthwork for about 10 mi. of concrete-lined canal with bottom width of 8'. (b) Earthwork for, and construction of, about 1.3 mi. unlined lateral and wasteways. Bottoms widths vary from 2' to 6'. (c) Earthwork for, and construction of dikes, structures along canal including diversion structure consisting of an emergency wasteway and a headworks structure, irrigation pipe crossing, corrugated metal pipe drainage inlets, bridges, gauging station, gauge house and well, and chute. (d) Earthwork for, and construction of structures along laterals and drains including check, drop, road crossing, division boxes and tunnels. (e) Installing radial gate furnished by the Government. Furnishing and installing radial gate hoist. (f) Furnishing and installing slide gates, adjustable weirs, and miscellaneous metalwork. (g) Furnishing and installing electrical system for headworks, gate structure. (a) Furnishing and installing materials for fencing and gauging station cableway.

SP 1-14. Previous report 12-20

▲DELIVERY FACILITIES— Ephrata, Wash.

Eight bids received by Bureau of Reclamation, Box 358, Ephrata, for additional delivery facilities in Blocks 46 and 49 in the vicinity of Othello, Adams County, Wash.; Spec. No. 117C-484. Bids opened January 14. LOW BIDS: John M. Keltch, Box 504, Pasco, $29,639; Glen Pegram, Box 1326, Othello, $31,840; Mast & Meyers, Box 1132, Moses Lake, $31,894. Government estimate, $29,426.

Features of the work include: (a) Earthwork for approximately 1 mi. laterals and wasteway with 2' bottom widths. (b) Earthwork for and construction of structures along the laterals and wasteway. (c) Furnishing and installing metal slide gates and lifts, adjustable weirs, miscellaneous metalwork, and other materials. (d) Furnishing and installing 1 motor-driven vertical shaft pumping unit and other pumping plant materials and equipment.

Quantities: 4,670 c.y. excavation; 200 c.y. mi. overhaul; 1,150 c.y. backfill; 80 c.y. coarse gravel protection; 66 c.y. concrete; 100 bbls. cement; 315' concrete irrigation pipe; 444' reinforced concrete culvert pipe; 287' concrete pressure pipe; 660 lb. miscellaneous metalwork; 6' electrical rigid metal conduit; 100' electrical wire or cable; lump sum bids for modification of division box, turbine type pumping unit, steel discharge pipe and electrical control equipment.

Completion time 65 calendar days for all work except furnishing and installing pumping unit and discharge piping; 90 calendar days for pumping unit and discharge piping complete. SP 1-15. Previous report 12-21

▲EARTHWORK, STRUCTURES— Ephrata, Wash.

Five bids received by Bureau of Reclamation, Box 368, Ephrata, for earthwork and structures for the PE47-Q1A lateral, and modification of structures along PE47N lateral, Block 15, about 9 mi. west of Eltopia, Franklin County, Wash.; Spec. No. 117C-483. Bids opened January 14. LOW BIDS: Twin City Construction Co. and Clarence Braden, joint venture, 404 N. 7th St., Pasco, $5,472; Kenneth Beck, 2203 Main, Moses Lake, $5,590; John M. Keltch, Box 504, Pasco, $6,394. Government estimate, $5,537.

Features of the work include—LATERAL PE47Q1A: (a) Excavation and other earthwork for construction of approximately 600' unlined lateral. Bottom width is 2'. (b) Earthwork for and construction of structures including a type 4 constant head orifice turnout structure and a 15" diameter concrete pipe road crossing structure. LATERAL PE47N: (c) Earthwork for and construction of a new type 10 concrete check at Station 61+70. (d) Earthwork for and modification of the existing outlet structure at Station 0+00, and 3 existing constant downstream water surface checks at Stations 22+00, 41+00 and 54+00.

Quantities: 15 c.y. excavation for lateral; 180 c.y. excavation for structures; 1,200 c.y. excavation from borrow; 1,400 c.y. mi. overhaul; 220 c.y. compacting embankments; 70 c.y. backfill about structures; 60 c.y. compacting backfill about structures; 60 c.y. puddling backfill about structures; 12 c.y. concrete; 18 bbl. cement; 1,060 lb. reinforcement bars; 12 c.y. coarse gravel protection; 92' reinforced concrete culvert pipe.

SP 1-15. Previous report 12-

●DEEP DRAINS— Ephrata, Wash.

Bid opening extended from January 21 to 10 a.m., January 23, by Bureau of Reclamation, Box 368, Ephrata, for deep drains, Block 86, DW66.7, DW69F, DW272A and DW272A1, west of Royal Camp and about 23 mi. northeast of Othello, Grant County, Wash.; Spec. No. 117C-485. Specifications with above office.

Features of the work include open drains and structures, Block 86: (a) Earthwork for approximately 2.1 mi. drains with 2' to 6' bottom width. (b) Earthwork for and construction of structures including road crossings, drain inlets, pool drops and a rectangular inclined drop. (c) Removing salvaging and relaying or disposing of pipe.

Quantities: 22,000 c.y. excavation for open drains; 3,200 c.y. excavation for structures; 1,300 c.y. backfill about structures; 500 c.y. compacting backfill about structures; 200 c.y. puddling backfill about structures; 200 c.y. riprap; 150 c.y. sand and gravel or crushed rock bedding for riprap; 100 c.y. coarse gravel protection; 8 c.y. concrete; 12 bbl. cement; 790 lb. reinforcement bars; 746' corrugated metal pipe; 132' laying salvaged corrugated metal pipe.

SP 1-15. Previous report 12-

★POWERPLANT— Everett, Wash.

Award to Frank Ash Motor Co., Granite Falls, $3,189, by Snohomish County Commissioners, Courthouse, Everett, for one six-cylinder gas powerplant, complete with all accessories and kits for installation on a 1950 EQ Mack truck for use by Snohomish County Road District No. 1. Bids opened December 30. HH 1-10. Previous report 12-

★RADIO-TELEPHONE UNITS— Everett, Wash.

Award to Motorola Communications and Electronics, Inc., J. S. Ditty Bldg., Bellevue, $3,580, by Snohomish County Commissioners, Courthouse, Everett, for furnishing 10 transistorized portable FM radio-telephone transmitter-receiving units for use by Snohomish County Civil Defense Department. HH 1-10. Previous report 12-

●FIRE TRUCK— Everett, Wash.

Bids will be opened 8 p.m., February 3, by Commissioners of Snohomish County Fire Protection District No. 6, 6800 Beverly Blvd., Everett, for purchase of a new fire truck. Specifications with above office. HH 1-

▲GAS PIPING, TANKS, VENTILATION, SHOPS— Fairchild Defense Area, Wash.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for project modifications at Control and Launching Areas, Fairchild Defense Area, Wash.; ENG-45-108-58-41. Bids opened January 14.

Work consists of relocating three 1,000-gal. propane tanks including gas piping thereto, addition of check valves and pressure relief valves in each of two pump houses; addition of controls in ventilating units in each of four sites; addition of ventilation system in Barber Shop at each of four sites; addition of conduit, load centers, junction boxes, voltage stabilizers and conduit in Engine Generator Bldg. at one site; addition of hatch stops at underground structures at each of four sites; addition of safety switches in Assembly and Test Bldg. at each of four sites; construction of paved drainage ditches at each of six sites; addition of astregals for various doors.

Five bids received. LOW BIDS: Rural

Construction Co., 602 Realty Bldg., Spokane, $5,751; P & B Co., Inc., E. 8903 Main, Spokane, $6,138; Spokane Plumbing and Heating Co., N. 613 Monroe, Spokane, $7,375. Government estimate, $7,098.
SP 1-15. Previous report 1-11

● ■ TREATMENT PLANT MODIFICATION— Fort Lewis, Wash.

Bid opening established as 2 p.m., January 16, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for sewage treatment plant modifications at Fort Lewis; ENG-45-108-58-42. Specifications with above office.

Planholders: Bergman & Son, 9072 51st Ave. N.E., Seattle; Harold Kaeser Co., 3629 34th Ave. S., Seattle; Alton V. Phillips Co., 4055 21st West, Seattle; Shoreline Construction Co., 12519 15th N.E., Seattle; Cascade-Olympic Construction Co., Route 2, Box 131, Shelton; Kendall Construction Co., 3211 Center St., Tacoma; Marvin Construction Co., 112 Lake Louise Drive S.W., Tacoma.

Work includes small amount of asphaltic concrete pavement, including prime coat and base and leveling courses; electrical including conduit, floodlighting and controls; changes in sewage piping including appurtenant valves; addition of elapsed time meters and manometers; addition of sluice gates and operators; addition of hand railing and grating. SP 1-14. Previous report 12-26

MOTOR POOL PAVING—Fort Lewis, Wash.

Bids will be opened about February 20 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for paving of an existing motor pool area, Regimental Motor Pool No. 2, Phase 2, Fort Lewis; ENG-45-108-58-47. Specifications with above office.

Work includes 48,000 sq. ft. overlot grading; 6,915 ton asphaltic concrete pavement; 440 ton asphalt cement; 47 ton tack coat; 93 ton prime coating; 2,850 c.y. crushed aggregate leveling course; 47,000 sq. yd. subgrade preparation; removing and resetting 935' of existing barb wire fencing; construction of curbs, protective posts, and valve boxes for water system; replacing and modifying concrete edges, air line drain valve pits, storm sewer manholes, and fire hydrants; installing four runs of electrical 2" conduit. Asphaltic concrete pavement will consist of binder and surface course having combined thickness of 2½".
SP 1-14

AIRPORT— Gig Harbor, Wash.

The Port of Tacoma, Port of Tacoma Terminal, Tacoma, has indicated that it would be willing to issue $350,000 in airport revenue bonds, providing a leasehold agreement can be arranged, to help finance proposed development of an airport at the Peninsula site in the Gig Harbor area. The airport proposal presently calls for $350,000 contributions by the port and the city of Tacoma and a $100,000 gift from Weyerhauser Timber Co., all to be matched by an $800,000 grant from the Civil Aeronautics Administration. SC 1-14. Previous report 1-9

▲OIL STORAGE TANK HEATERS— Kent, Wash.

Two bids received by King County Commissioners, 402 County City Bldg., Seattle, for installation of electric immersion heaters in three road oil storage tanks of 10,000 gallon capacity, located at Road District No. 2, "Calhoun" Gravel Pit, approximately five mi. east of Kent. Bids opened January 13. ONLY BIDS: Columbia Equipment Co., 5030 1st S., Seattle, $5,805; Fellstrom Electric Co., 2211 9th, Seattle, $5,842.
SP 1-14. Previous report 12-7

REINFORCED CONCRETE BRIDGE— Moses Lake, Wash.
(Estimated cost $250,000)

Final plans underway by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, for a reinforced concrete bridge over Parker Horn, near Alder St. Crossing, in Moses Lake. Bids will be called in early April by City Council, Mabel Waterman, city clerk, City Hall, Moses Lake.
IG 1-10

■ GRADING, BRIDGE— Mason County, Wash.

Additional planholders announced for grading 4.031 mi. and constructing a 200' reinforced concrete girder bridge, Washington Forest Development Project Olympic 245-A, Lake Cushman Road, Olympic National Forest, Mason County, Wash. Bids will be opened 10 a.m., January 21, by Bureau of Public Roads, B. M. French, regional engineer, 757 Morgan Bldg., Portland.

Additional planholders: Frank Lyons & Co., 5200 N.E. Alberta St., Portland; Circle S Construction & Logging, Hoodsport; B. F. Gerard 5526 160th S.W., Edmonds; Osberg Construction Co., 1132 N. 128th St.; Del Guzzi, Inc., P. O. Box 591, Port Angeles; P. J. Anderson & Sons, 13501 Aurora Ave.; Winterburn Construction Co., P. O. Box 202, Port Townsend; Anderson & Johnson, 11037 Roosevelt Way; Olympic Construction Co., Box 308, Port Angeles; Commercial Iron Works, Inc., 2021 S.E. Grand Ave., Portland; West Coast Construction Co., Inc. 835 W. 48th St.; Goodfellow Bros., Inc. P. O. Box 1337, Wenatchee; S. S. Mullen, Inc., P. O. Box 3886, Terminal Annex, Seattle; Basin Contracting Co., 19855 10th Ave. N.W.; Bocek Bros., 3126 Simpson Ave., Hoquiam.

Louis Elterich Co., P. O. Box 868, Port Angeles; Blossom Bros. Logging & Construction Co., Suquamish; Roger E. Holmes, Route 10, Box 493, Olympia; Mack Slate, Jr., 632 Washington St., Albany, Ore.; Dale M. Madden 3010 E. 163rd St.; Critchfield Logging Co., Inc., Route 3, Box 412, Port Angeles; J. N. Conley, 4332 N.E. Royal Court, Portland; N. Fiorito Co., 844 W. 48th St.; Kathman Construction Co., P. O. Box 555, Kenmore; J. P. Surace Construction Co., 2414 Blue Ridge Drive; Elco Co., Route 2, Box 187, Cornelius, Ore. Of Seattle except as noted.
WB 1-15. Previous report 1-4

● SUBSTATION— Moses Lake, Wash.

Bids will be opened 2 p.m., February 3, by Bonneville Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of the Sand Dunes Substation, about four mi. south of Moses Lake, Grant County, Wash.; Inv. No. 8629. Specifications with above office. $25 deposit. Bid bond 25%.

Quantities: 500 c.y. excavation and grading; 570 c.y. structural excavation; 144 c.y. reinforced concrete footings; 70 c.y. duct system excavation; 50,000 lb. steel erection; 732' fencing; lump sum bids for steel conduit, station service cabinet, fiber duct runs, duct system handholes (2), grounding system, bus and connectors, yard lighting system, painting control house trench, painting handholes (2), painting latrine, control house and latrine; installation of station equipment; 420 sq. ft. concrete sidewalks; 485 c.y. crushed rock; 28' of 8" corrugated metal pipe culverts; 30' corrugated metal pipe culvert, pipe-arch.
SP 1-14

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award announced by Washington State Highway Commission, Olympia, on the last of seven highway projects on which bids opened January 7.

CEMENT CONCRETE PAVING, Trosper Road to Martin Way—Surfacing, paving with cement concrete and asphaltic concrete, constructing cement treated base and installing illumination on 6.252 mi. PSH No. 1, Thurston County; FAP No. 1-001-2(55).

AWARD: Fiorito Bros., 1100 Leary Way, Seattle, $1,732,683.
DE 1-10. Previous report 1-9

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received by Washington State Highway Commission, W. A. Bugge, director, Olympia, for four highway projects on which bids opened January 14.

PAVING WITH CEMENT TREATED BASE, BRIDGES—Mud Bay to Schneiders Prairie—Clearing, draining, grading, surfacing, constructing a cement treated base, paving with asphaltic concrete, installing illumination, constructing two reinforced concrete box girder bridges and three reinforced concrete flat slab bridges on 2.723 mi. of PSH No. 9, Thurston County; FAP No. F-007-5(9).

LOW BIDS: Fiorito Bros., 1100 Leary Way, Seattle, $1,184,881; John P. Hopkins, Inc., Box 247, Mercer Island, $1,217,620; Northwest Construction Co., 3950 6th N.W., Seattle, $1,222,757.

DRAINING, GRADING, Zillah Vicinity—Clearing, draining, grading on 2.429 mi. PSH No. 3, Yakima County; FAP No. F-018-3(4), Unit 1.

LOW BIDS: C. E. Oneal, Inc., Box 270, Ellensburg, $95,437; J. W. Hardison, Inc., Box 48, Yakima, $96,459; C & E Construction Co., Box 1545, Yakima, $103,888.

PAVING, ILLUMINATION SYSTEM, Lenox Ave. to Birchfield Road, Et Al—Clearing, draining, grading, surfacing, asphalt concrete paving, constructing an illumination system on 2.756 mi. SSH No. 11-A and a county road in Yakima County, a State Project.

LOW BIDS: C & E Construction Co., Yakima, $158,990; J. W. Hardison, Inc., Yakima, $164,661; Strong & Macdonald, 4045 Ruston Way, Tacoma, $203,053.

BITUMINOUS SURFACING, Prosser South and Hayden Corner Vicinity — Clearing, draining, grading, bituminous surfacing, stockpiling maintenance rock, sand and mineral aggregates on 3.136 mi. PSH No. 8, Benton County; a State Project.

LOW BIDS: K. C. Dack Construction Co., Box 642, Pendleton, Ore., $280,825; Goodfellow Bros., Box 1337 Wenatchee, $285,276; C. E. Oneal, Ellensburg, $287,893.
DE 1-15. Previous report 1-7

● DRILLING WATER WELLS— Olympic National Forest, Wash.

Bids will be opened 2 p.m., P.S.T., January 29, by U. S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.E. Oregon St., Portland (P. O. Box 4137), for drilling, casing, sealing, developing and testing three water wells on government owned sites at the Quinault Ranger Station, Ollalie Campground and Klahowya Campground, located in Grays Harbor and Clallam counties, Olympic National Forest, Wash.; Bid No. 229. Plans with above office, or with Supervisor, Olympic National Forest, Post Office Bldg., Olympia.

The Quinault Ranger Station site and the Ollalie Campground site are located approximately 45 mi. north of Aberdeen, on the southeast shore of Quinault Lake. The well sites may be seen by contacting the district ranger at the Quinault Ranger Station. The Klahowya Campground site is located approximately 20 mi. east of Forks, Wash., on the Solduc River. The well site may be seen by contacting the district ranger at the Snider Ranger Station.
WB 1-11

▲CONTROL HOUSE, WATER SYSTEM— Port Discovery Bay, Wash.

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of control house and water system at the Fairmount Substation, one mi. south of Port Discovery Bay, Jefferson County, Wash.; Inv. No. 8611. BIDDERS: Owens Bros., Railroad Ave. and Oak St., Port Angeles, $61,373; Winterburn Construction Co., P. O. Box 202, Port Townsend, $63,007; Mann Construction Co., Redmond, Ore., $64,120; Hanberg & Danielson, P. O. Box 303, Bremerton, $64,732; Del Guzzi, Inc., 1020 E. Front St., Port Angeles, $65,193; White Construction Co., 210 E. 18th St., Vancouver, $70,261; Jentoft & Forbes, 927 W. 46th Ave., Seattle, $74,983; John M. King Co., 1601 Taylor Way, Tacoma, $79,658. Bids opened January 10.
WB 1-14. Previous report 1-11

STREET IMPROVEMENTS—Pullman, Wash.

Public hearing will be held 7:30 p.m., January 21, by City Council, City Hall, Pullman, concerning grading, curbing, ballasting, paving and installing catch basins along about one mi. of streets on Pioneer Heights, Pullman.
MH 1-14

● SWEEPER, LOADER— Renton, Wash.

Bids will be received until 5 p.m., January 28, and will be opened at 8 p.m., that evening, by Elton L. Alexander, city clerk, City Hall, Renton, for furnishing the city with a power sweeper and a front-end loader. Specifications with above office. Separate proposals on each contract.
SC 1-15

★FURNACE INSTALLATION— Richland, Wash.

Award to George A. Grant, Inc., Box 764, Pasco, $12,460, by Atomic Energy Commission, Box 550, Richland for installation of an electric sintering furnacing and perform-

ing related work in the 300 Area at Hanford Works, Richland, Wash. Completion time is 60 calendar days.

The furnace is to be approximately 3' square in section and 20' in length, with loading and unloading tables and equipment at the respective ends. The furnace and appurtenances will have a total weight of approximately 12 tons and will be shipped in 12 parts. Work includes installing equipment such as control and power panels, transformers and reactors; installing manifolds and piping for about 40 gas cylinders, electrical work and miscellaneous painting.

DM 1-10. Previous report 1-2

★**ELECTRICAL DISTRIBUTION SYSTEM—** **Richland, Wash.**

Award to Northside Electric Co., Grandview, $15,984, by Atomic Energy Commission, Box 550, Richland, for alteration and extension of the electrical distribution system at Richland.

SP 1-15. Previous report 1-8

■ **STOCKPILING—** **Ritzville, Wash.**

Planholders announced for production of crushed mineral aggregate in several sizes from quarries near Ankeny and Schrang and a pit at Vassar. Bids will be opened 11 a.m., January 24, by Adams County Commissioners, Courthouse, Ritzville. Plans with W. W. Athey, county engineer, Courthouse, Ritzville.

Planholders: D. A. Sullivan, Box 37, Parkwater Station, Spokane; Frank G. Bauine, Box 84, Yardley; F. H. DeAtley, Box 648, Lewiston, Idaho; Ray Weist, Box 191, Yakima; Sather & Sons, Box 84, Yardley; Carbon Bros., Box 5025, Station C, Spokane.

SP 1-15. Previous report 1-10

★**ELECTRICAL CONTROL SYSTEM—** **Seattle, Wash.**

Award to Service Controls Co., American Bank Bldg., Portland, Ore., $12,423, by King County Water District No. 75, L. W. Bundy, secretary, 19863 28th Ave. S., Seattle, for furnishing and installing an electrical control system for wells and tanks in the district.

SP 1-10. Previous report 1-7

★**STEEL ANTENNA TOWER—Seattle, Wash.**

Award to Pacific Car and Foundry Co., 120 W. Hudson, Seattle, by Pacific Telephone and Telegraph Co., 1200 3rd Ave., Seattle, for construction of a steel antenna tower on the telephone company's equipment building at 1708 E. Pike St. in Seattle. Bids opened December 27 from a select list of bidders.

Specifications call for fabrication, delivery and erection of a 44' partially galvanized steel tower to be erected on the roof of the building. The tower will support microwave radio antenna horns needed for a new long distance system under construction.

SP 1-11. Previous report 12-20

● **CONTROL EQUIPMENT—** **Seattle, Wash.**

Bids will be opened 10 a.m., January 30, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for control equipment for four pumping stations, including the Bitter Lake Pumping Station, Volunteer Park Pumping Station, and two future pumping stations. Specifications with above office. There are three pumps at each of the above stations.

SP 1-11

● **PAVING—** **Seattle, Wash.**

Bids will be opened 2 p.m., January 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing portland cement concrete pavement, or (alternate bid) asphaltic concrete pavement on concrete base, on E. 70th, et al; LID 6171, Ord. No. 86602.

Plans available on and after January 13 with city engineers, 404 County City Bldg., Seattle. $10 deposit.

Quantities: 18,200 sq. yd. 6" paving; 16,300 sq. yd. 8" paving; 17,500' cement concrete curb; 1,900 sq. yd. 6" cement concrete alley paving; 6,950 sq. yd. cement concrete sidewalk; 835' of 8" clay or concrete pipe sewer; 5 manholes, miscellaneous drainage appurtenances; 1,860' of 8" cast iron water main and appurtenances.

PD 1-11

● **SEWER PIPE (41st S.)—** **Seattle, Wash.**

Bids will be opened 2 p.m., January 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing 830' of 8" concrete or clay sewer pipe on 41st Ave. S. between Court and Andover streets, Seattle; LID 6172, Ord. No. 86625. Plans may be obtained on and after January 13 with city engineering, 404 County City Bldg., Seattle. $10 deposit.

Work includes 300 ton of ¾" to minus crushed rock surfacing, three manholes, miscellaneous appurtenances.

PD 1-11

● **SEWER (56th S.W.)—** **Seattle, Wash.**

Bids will be opened 2 p.m., January 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing 1,260' of 8" concrete or clay sewer pipe on 56th Ave. S.W. from W. Bradford to W. Charlestown streets, et al; LID 6165, Ord. No. 86374. Plans may be obtained on and after January 13, in city engineering office, 404 County City Bldg., Seattle. $10 deposit.

Work includes 250 ton of ¾" to minus crushed rock surfacing, nine manholes, miscellaneous appurtenances.

PD 1-11

● **HYDRAULIC CRANE—** **Seattle, Wash.**

Bids will be opened 10 a.m., January 28, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one hydraulic crane mounted on truck carrier. Specifications with above office.

DM 1-11

● **TRAFFIC CONES—** **Seattle, Wash.**

Bids will be opened 10 a.m., January 21, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1,000 18" traffic cones. Specifications with above office.

SP 1-11

● **ELECTRICAL EQUIPMENT—** **Seattle, Wash.**

Bids will be opened 10 a.m., January 21, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 18,000' of 477 MCM ACSR "HEN" conductor, 100,000 lb. of 397500 CM ACSR Chickadee 1-c bare aluminum, and 200 jumper connectors. Specifications with above office.

SP 1-11

● **SWITCHGEAR ASSEMBLY—** **Seattle, Wash.**

Bids will be opened 10 a.m., January 21, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one assembly of low voltage switchgear complete with connecting bus duct. Specifications with above office.

SP 1-11

▲ **TOPSOIL, COMPOST MIX—** **Seattle, Wash.**

Two bids were received January 10 by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle for furnishing and delivery to the New Interbay Playfield, 15th W. and W. Wheeler, 225 c.y. sandy loan topsoil and 225 c.y. three-way mix. BIDS: T. J. McCann, 940 S. 150th, Renton, $1,687; Bassell Gro Earth, Alaska Road, Kenmore, $1,721.

DM 1-10. Previous report 1-7

★ **SHEET STEEL PILING—** **Seattle, Wash.**

Award to Columbia-Geneva Steel, Tower Bldg., Seattle, $8,095 CWT by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 85 ton new sheet steel piling.

DM 1-11. Previous report 12-28

★ **ELECTRIC WIRE—** **Seattle, Wash.**

Award to General Electric Supply Co., 1212 1st Ave. S., Seattle, $14,000, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 16,000' of wire, 500 MCM, single conductor, 600 volt.

DM 1-11. Previous report 1-8

● **POLE LINE HARDWARE—Seattle, Wash.**

Bids will be opened 10 a.m., January 20, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one lot of pole line hardware. Specifications with above office.

SP 1-11

● **GUARD RAIL WINGS, BEAMS—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing age 511 County City Bldg., Seattle, for furnish 50 flex beam guard rail wings and bea Specifications with above office. SP 1-

● **GUY WIRE—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing age 511 County City Bldg., Seattle, for furnish 100,000' of ⅛" 7-strand galvanized guy wi Specifications with above office. SP 1-

▲ **DRAINING, GRADING, SURFACING—** **Seattle, Wa**

Bids received by King County Commissioners, 402 County City Bldg., Seattle, f draining, grading and surfacing with cla B asphaltic concrete, 2.97 mi. of N.E. 70 (116th Ave. N.E.-Redmond Road), Kin County, and for clearing, draining, gradin curbing, sidewalks and asphaltic concre paving of 0.61 mi. of 15th Ave. S.W. (W Roxbury to S.W. 106th St.) in White Cente King County. Bids opened January N.E. 70th— LOW BID: Washington Asphal Co., 309 W. 39th, $61,546. OTHER BIDS Acme Construction Co., Jackson and Leary Redmond, $61,642; Excavators, Inc., 5656 20 N.E., $72,367; L. L. Newburn Construction Co., 6262 14th Ave. S., Seattle, $76,30 15TH S.W.—LOW BID: J. W. Work & Co 1040 159th Place S.E., Bellevue, $71,07 OTHER BIDS: Washington Asphalt Co $72,805; R. L. Moss & Co., Box 37, Zenit $73,806; Western General Construction Co 8902 14th Ave. S.W., $74,576; L. L. Newburn Construction Co., $75,360; Superior Construction Co., 4610 37th S.W., $80,715; Northwes Construction Co., 3950 6th N.W., $82,14 MacRae Bros., 5900 1st S., $87,584.

SP 1-14. Previous report 1-

● **WIRE—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing age 511 County City Bldg., Seattle, for furnish ing 2,000' of 750-MCM, single conductor, rub ber insulated 600-volt wire. Specifications with above office. PD 1-

● **CABLE REEL TRAILER—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing agen 511 County City Bldg., Seattle, for furnish ing one hydraulic cable reel trailer. Specifications with above address. PD 1-

★ **TRUCKS—** **Seattle, Wa**

Award to Westside Ford, Inc., 4755 Fauntleroy, Seattle, $6,920, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing two 2-ton motor truck chassis with tilt cabs.

PD 1-14. Previous report 1-

● **JOISTS, PLANKS—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing agent 511 County City Bldg., Seattle, for furnishing 1,500 pieces of red cedar 4"x4"x12' select merchantable joists and planks. Specifications with above office. PD 1-

▲ **METAL PIPE—** **Seattle, Wa**

Three bids received by Paul R. Hendricks city purchasing agent, 511 County City Bldg. Seattle, for furnishing 10, 20' lengths of 2 14 gauge galvanized metal corrugated pip and nine connecting bands. Bids opened January 13. BIDS: Armco Drainage and Metal Products, Inc., 220 W. Harrison, Seattle, $909; Hydraulic Supply Mfg. Co., 75 8th S., Seattle, $927; Beall Pipe and Tank Corp., 12005 N. Burgard, Portland, Ore. $973. PD 1-14. Previous report 1-

● **WATER METERS—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing agent 511 County City Bldg., Seattle, for 250 of 1 cold water meters. Specifications with abov office. SC 1-

● **RADAR SPEED METER—** **Seattle, Wa**

Bids will be opened 10 a.m., January by Paul R. Hendricks, city purchasing agent

511 County City Bldg., Seattle, for one Model S-2 radar speed meter. Specifications with above office. SP 1-15

▲CABLE— Seattle, Wash.

Ten bids received January 14 by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 18,000' of 3-conductor cable. Figures ranged from a low bid of $35,854 to a high of $47,798 (water), $51,294 (rail). Identical low bids of $35 854 were submitted by the following firms: Columbia-Geneva Steel Corp., Tower Bldg., Seattle; Connollys Blackley, Ltd., Ltd., London; Enfield Cables, London; Henleys Telegraph Works, London; American British Electric Corp. 57 Park Ave., New York, N.Y.; Siemen's Edison Swan, Ltd., 155 Charing Cross Road, London. HIGH BID: Chase Brass & Copper Co., Phillipsdale, Rhode Island, $48,798 (water), $51,294 (rail).
PD 1-15. Previous report 12-21

▲JOISTS, PLANKS— Seattle, Wash.

Four bids received by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1,000 pieces of 4"x-4"x12' joists and planks. Bids opened January 14. BIDS: Lockwood Lumber Co., 2823 Western, $1,440; W. C. Stripp, White-Henry-Stuart Bldg., $1,490; Southway Lumber Products, Inc., 35616 S.E. A St., Auburn, $1,990; Webster Lumber Mills, Inc., 600 W. Nickerson, $1,992. All of Seattle unless noted.
PD 1-15. Previous report 1-7

▲METER PARTS— Seattle, Wash.

Rockwell Mfg. Co., 119 W. Denny Way, Seattle, submitted the only bid, in amount of $1,847, to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing meter parts for Empire, Tropic and Rockwell meters.
PD 1-15. Previous report 1-8

SEWER IMPROVEMENTS— Snohomish, Wash.

A general obligation bond issue for $110,000 to help finance sewer improvements will be placed before Snohomish voters March 11. Surveys being made by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle, for the City Council, Snohomish, on proposed construction of additional sewer collection systems, interceptor trunk lines, pumping stations and a lagoon-type sewage treatment plant. Plans call for division of the city into approximately eight drainage areas with provision for future expansion.

Present plans call for purchase of approximately 53 acres of land west of Snohomish for construction of a lagoon type sewage treatment system. The site of the lagoon which will take less than half of the property will be west of the new Highway 1-A right of way between Cemetery Road and the river. Diking will protect the lagoon from flood waters.
DM 1-14. Previous report 12-12

▲BASEBALL PARK— Spokane, Wash.

Bids received by Spokane County Commissioners, Courthouse, Spokane, for excavation work at the site of the proposed new Pacific Coast league baseball park on the Spokane Interstate fairgrounds east of Spokane. Work will include lowering the field level and constructing an earth bank on which stands will later be built (see Park Buildings, Grandstand — Spokane, Building page, PCD 1-8). Bids opened January 7. LOW BID: Henry George & Sons, Hutton Bldg., $34,520. OTHER BIDS: Troy Hood, Box 11, Opportunity, $36,056; Murphy Bros., E. 3728 Broadway, $38,050; Henry Hagman, E. 4025 Trent, $40,930; Max J. Kuney, 120 N. Ralph, $41,340; Hilton-Lawrence, E. 41 Gray, $47,000; H. Halvorson, Inc., Box 6, Yardley, $47,917; Purvis Construction Co., Box 64, Yardley, $74,414; Carl Hohner, E. 5801 3rd, $84,110. All of Spokane unless noted.
LL 1-10. Previous report 1-4

CITY DEVELOPMENT— Tacoma, Wash.

The Tacoma City Council has voted unanimously to place two bond issues for improvements on the March ballot and postponed action of two others. On the ballot are a $2,775,000 bond issue for improvements and extension of the city's storm drains and a $1,040,000 bond issue for street lighting. The council deferred action on a $350,000 bond issue for public buildings after defeating a proposal to add $400,000 to the item to provide for acquisition of a site for a civic auditorium. Also deferred was action on a $4,073,000 bond issue for street and bridge improvements.
SC 1-10. Previous report 12-31

●REINFORCED CONCRETE BRIDGE— Tacoma, Wash.

Bids will be opened for the second time 10 a.m., January 28 by Pierce County Commissioners, Courthouse, Tacoma, for construction of a 700' long reinforced concrete bridge over Day Island lagoon and the Northern Pacific railway tracks near the former 6th Ave. ferry landing, on the newly constructed Day Island Road (S. 27th St.); CRP No. 1687. Plans and specifications with Keith F. Jones, county engineer, Courthouse. $5 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 474 c.y. concrete cl A; 48 prestressed beams; furnish 2740' prestressed concrete piles; 5,300 lb. structural steel; 1,233' special bridge rail.

Bids were previously opened in November and rejected. The low bid was submitted by J. A. Troxell, 9400 N.E., Lake Washington Blvd., Bellevue, $178,903. Four firms submitted figures, the highest being $201,602.

The structure will extend from the new extension of S. 27th to the south end of the pavement on Day Island about S. 24th St. The existing crossing from the mainland to Day Island will be demolished upon completion of the new bridge. Financing will be assisted by Northern Pacific Railway.
DC 1-10. Previous report 11-13

DRIVING PILES, DOLPHINS— Vancouver, Wash.

W. H. Forsyth, 6017 Beach Drive, Vancouver, has applied to the Corps of Engineers, Portland District, 628 Pittock Block, Portland, for a permit to drive piles and dolphins for a small boat moorage in the Columbia River about 4.3 mi. upstream from the Interstate Highway Bridge at Vancouver. The site for the proposed moorage is in front of Forsyth's property on the Washington shore extending upstream from Leiser Point. Piling for the moorage will be driven in two rows parallel to the low water line with the channelward row about 120' from the low water line. Channelward limit will be about 1500' north of the center line of the ship canal.

Colonel Jackson Graham, Portland district engineer, has invited letters concerning the effect of the work on navigation and has asked that they reach his office not later than January 22. SP 1-10

▲ROAD RESURFACING, WIDENING— Vashon Island, Wash.

Seven bids received by King County Commissioners, 402 County City Bldg., Seattle, for construction of a third lane and resurfacing existing pavement with asphaltic concrete, on 1.2 mi. of Vashon Island Blvd. (Ferry Dock to top of hill) on Vashon Island. Bids opened January 13. BIDS: Western General Construction Co., 7721 36th S.W., $61,777 (there appears to be an error in tabulation of this bid); Bass Construction Co., 12526 Aurora, $79,005; Washington Asphalt Co., 309 W. 39th, $80,838; S. C. Bard Co., Vashon Island, $88,163; All City Excavating Co., 8114 9th Ave. S.W., $88,236; J. H. McGrath, Inc., 13825 N.E. 20th, Bellevue, $90,320; L. L. Newburn Construction Co., 6262 14th Ave. S., $93,844. All of Seattle unless noted. SP 1-14. Previous report 1-9

GROUT CUTOFF— Wenatchee, Wash.

Quantities listed on construction of a grout cutoff on the east bank (Douglas County) side of the Rocky Reach hydroelectric project near Wenatchee on which bids will be opened 10 a.m., February 5, by Chelan County Public Utility District No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee. Specifications are with Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seattle.

Contract calls for grouting an average depth of 40' to 45' from bedrock up to a layer of silt on the left bank of the river, over a total distance of about 1,500'. Grouting will be required through three lines of drill holes on staggered spacing.
DM 1-11. Previous report 1-7

IDAHO

★STATE HIGHWAY PROJECT— Boise, Idaho

Award announced by Department of Highways, 603 Main St., Boise, for a highway project on which bids opened January 7.

CRUSHED GRAVEL ROADWAY, 2 mi. N. of Notus East to U.S. 30—Construction of roadway and crushed gravel base on 4.511 mi. Notus Road connection from 2 mi. north of Notus East to U.S. 30, Canyon County; FAP No. S-3741(1).

AWARD: Karl Woodall, 2114 Pond, Boise, $80,039. SP 1-15. Previous report 1-9

DRAINS, FILTER PLANT— Bonners Ferry, Idaho

(Estimated cost $260,000)

Final plans underway by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, for water drains and a filter plant at Bonners Ferry. Bids will be called in April by City Council, Harold Buroker, city clerk, City Hall, Bonners Ferry. IG 1-10

▲DEEP WELL PUMPS—Idaho Falls, Idaho

Bids received by Atomic Energy Commission, Box 1220, Idaho Falls, for furnishing and installing FET deep well pumps at the Aircraft Nuclear Propulsion Project, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-934. Bids opened January 8. LOW BID: Wintroath Pumps Division of the Worthington Corp., S. Highway, Idaho Falls, $13,392. OTHER BIDS: Johnston Pump Co., Pasadena, Calif., $14,717; Fairbanks, Morse & Co., San Francisco, Calif., $15,946; Mountain States Irrigation Co., Calhan, Colo., $17,672; Electric Pump and Equipment Co., Inc., 364 2nd Ave. E., Twin Falls, $18,000. Government estimate, $17,200.

Description of work: (a) Furnish and install two deep well, oil lubricated turbine pumps in the Commission's wells. Pumps shall be furnished complete with combination starters and all other equipment to make the pumps complete self-operating units. Total pumping head will be 300' and the pumps shall have a minimum capacity of 1300 gpm of 210 TPH. (b) Contractor shall be required to run an eight hour continuous pump test of each well pump and provide for disposal of the pumped water.
SP 1-11. Previous report 12-24

SEWER SYSTEM— Kooskia, Idaho

Bond issue for $137,000 to finance construction of a sewer system for the village of Kooskia, has been approved by voters. Plans by E. B. Steel, consulting engineer, 3020 Main St., Boise. The sewer system will involve installation of sewers and construction of two sewer treatment plants.
DC 1-15. Previous report 1-4

★SUBSTATION EQUIPMENT— Minidoka Project, Idaho

Award to Standard Transformer Co., Warren, Ohio, $2,232 fob Rupert, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for Schedules 1, 2 and 6 involving furnishing six current and ten potential transformers and four 3-kva distribution transformers for substations in Groups 1, 5 and 7, North Side Pumping Division, Minidoka Project, Idaho; Spec. No. 100S-321.

Contract for Schedules 3 and 5 of the substation equipment furnishing was previously awarded to General Electric Co. of Denver.
SP 1-11. Previous report 1-7

●DRILLING WELL— Moscow, Idaho

Bids will be received until 5 p.m. and opened at 7:30 p.m., January 27, by City Council, City Hall, Moscow, for drilling an exploratory well within a present drilled hole located adjacent to the northern boundary line of the city. Plans and specifications with city engineer, City Hall. Certified check 5%.

Specifications—Drilling to accommodate a

16" casing in sedimentary formation, 250'x 550'; drilling 16" hole in basalt formation, 550' to 750', furnish and install 16" casing in existing open 19" hole through basalt formation, 250' to 550'; furnish, install, drive 16" casing in sedimentary formation to include sampling, 250' to 550'; furnish, install well screen; furnish, install, operate test pump. DM 1-14

★PARKING AREA SURFACING— Mountain Home AFB, Idaho

Award to Boise Paving and Asphalt Co., 1007 S. 17th St., Boise, $14,369, by U.S. Air Force, Mountain Home AFB, for asphaltic seal coating parking areas; IFB 10-603-58-19. Bids opened December 20.
SP 1-10. Previous report 12-3

▲STREET SURFACING MATERIALS— Nampa, Idaho

Bids received by City Council, George Shellaberger, city clerk, City Hall, Nampa, for furnishing 18,000 ton crushed gravel surfacing and 4,000 ton cover coat material for Nampa Street Department. Consulting engineers are Johnson & Underkofler, 1022 12th Ave. S., Nampa.

Five bids submitted: Nelson & Deppe, Route 1, Nampa, $15,600; Washington Sand and Gravel Co., 616 11th Ave., Nampa, $15,-880; T & S Construction Co., Box 1114, Twin Falls, $17,100; Olof Nelson Construction Co., Box 267, Logan, Utah, $18,700; Holmes Construction Co., Heyburn, $22,500. Bids were opened January 6.
DM 1-10. Previous report 12-21

●SURFACING MATERIAL— Post Falls, Idaho

Bids will be opened 7:30 p.m., January 24, by Manuel Schniedmiller, secretary, Pleasant View Highway District, Post Falls, for crushing and screening approximately 26,500 ton stone surfacing material. Specifications may be obtained from above office or from W. L. Malony & Associates, consulting engineers, Symons Bldg., Spokane, Wash. Certified check, cashier's check or bid bond 5%.
DC 1-14

HYDROELECTRIC PROJECT— Sandpoint, Idaho

An amended preliminary permit to build three instead of two dams in Lincoln County has been given by the Federal Power Commission to Northern Lights Inc., Dover Highway, Sandpoint.

This amended permit for the proposed hydroelectric project adds the Lower Yaak damsite to Five Mile and Yaak Falls sites approved early in 1957. It gives Northern Lights priority while preliminary studies are made to prepare an application for an FPC license. DC 1-15

MONTANA

★DUMP TRUCKS— Billings, Mont.

Award to International Harvester Co., 20 S. Broadway, Billings, $35,897, less $7,500 trade-in allowance, by Yellowstone County Commissioners, Courthouse, Billings, for purchase of seven new dump trucks for the county road department. Bids opened January 6. OTHER BIDS: Archie Cochrane Motors, 3025 1st Ave. N., Billings, $34,393 less $4,400; Mulvaney Motor Co., 2605 1st Ave. N., Billings, $36,225 less $3,600; Interstate Truck and Equipment, 123 N. 15th St., Billings, $36,409 less $3,150; DeFrance GMC Co., Laurel, $39,300 less $8,400; Billings White Truck Co., 1007 1st Ave. N., Billings, $52,986 less $6,855.
EE 1-14. Previous report 12-24

STREET SURFACING— Billings, Mont.
(Estimated cost $31,281)

The proposed RSID No. 401 for blacktopping several streets in west Billings has been taken under advisement by the Billings City Council as a result of several protests which were registered at a public hearing held January 7 by the council. The protests appear to be due to an error in the public hearing notice which indicated that cost per average lot would be about $800, rather that the correct figure of $170.

Work proposed includes the following sections: Broadwater and Wyoming avenues from 24th St. W. to Parkview Drive; Yellowstone Ave. from 24th St. W. to west line of lot 39, Block 6, Lillis Subdivision; Clark Ave. from 25th St. W. to west line of Lot 14, Block 7, Lillis Subdivision; Clark Ave. from 25th St. W. to west line of Lot 39, Block 9, Lillis Subdivision; Lillis Lane from 24th St. W. to west line of Lot 4, Block 9, Lillis Subdivision; 24th St. W. from Broadwater Ave. to Lillis Lane.
EE 1-15. Previous report 12-26

SANITARY SEWER— Billings, Mont.

As a result of a public hearing held January 7 by City Council, City Hall, Billings, a sanitary sewer district has been created for the installation of a sanitary sewer to serve Block 13, Partington Park Subdivision, Billings. No bid date has been set.
EE -15. Previous report 1-2

■TELEPHONE FACILITIES— Circle, Mont.

Planholders announced on construction of 255.4 mi. of telephone line in McCone, Richland and Roosevelt counties, Mont., on which bids are being opened 10 a.m., January 21 by the Mid-Rivers Telephone Cooperative, Inc., Circle. Plans and specifications with Associated Engineers Inc., 1127 Alderson Ave., Billings.

Planholders: A. M. Lips Construction Co., Box 292, Faribault, Minn.; Bonneville Construction Co., Box 900, Idaho Falls, Idaho; Main Electric Inc., Box 946, Minot, N. Dak.; Williams Construction Co., Box 631, Lewistown; Mullen Construction Co., Inc., Box 378, Appleton, Wis.; Line Builders Inc., Box 581, Billings; Max Fonnesbeck, Logan, Utah; Tri-State Construction Co., Breckenridge, Minn.; Cable Construction Co., 1512 Center St., Tacoma, Wash.; Killoren Co., Appleton, Wis.

New construction involves 121.8 mi. of one-circuit, 33.8 mi. of two-circuit; 2 mi. of three-circuit; 9.6 mi. of four-circuit; 2.2 mi. of five-circuit; 2.4 mi., six-circuit; ¼ mi. pole line with multi-pair distribution wire; 56.9 mi. one-circuit joint use line; 5.8 mi. service drops.
DM 1-10. Previous report 12-28

★BUILDING, ROAD RENOVATIONS— Fort Missoula, Mont.

Awards have been announced by Captain Robert F. Rabe, Montana Military District, Fort Missoula, for renovations on buildings and roads at Fort Missoula. AWARDS—Electric Rewiring of Two Buildings: Western Montana Electric, 205 W. Front, Missoula, $2,218. Repair Roadways: Asphalt Paving Co., Inc., 1651 Russell, Missoula, $9,366. Acoustical Tile, Building 26: Fiberglass Engineering and Supply Co., E. 3044 Trent, Spokane, Wash. DM 1-11

STORAGE TANK, ACCESS ROAD— Glasgow AFB, Mont.

Bids will be opened about February 19 by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for base avfuel storage, including steel bulk storage tank, excavation and embankment, access road, water and fuel lines, electrical work, at Glasgow AFB; ENG-45-164-58-18. Specifications with above office.

Work includes design and construction of a 70' diameter, 25,000-bbl., steel bulk storage tank with pontoon type floating roof; excavation and embankment for oiled sand pad and earth dike; construction of asphaltic concrete access road; water and fuel lines; exterior electrical work; and approximately 2 acres of dryland grass. SP 1-10

●ROAD REPAIR— Malmstrom AFB, Mont.

Bid opening extended from January 10 to 11 a.m., M.S.T., January 31, by U.S. Air Force, Procurement Office, Malmstrom AFB, for construction of an extension of the perimeter road and for repairing sections of the existing perimeter road and other streets at the base; Inv. No. 58-12. Specifications with above office.

Work is to start about March 1, 1958, and will require 153 days for completion. Project involves extension of the perimeter road eastward from 5th St. for approximately 2,000', and about 20,000' asphaltic concrete overlay and other repairs to sections of roads and streets in several parts of the base.
SP 1-14. Previous report 12-

★EQUIPMENT PAINTING— Noxon Rapids Dam, Mont.

Award to Harold Tate, 505 Skyline Drive, Pullman, Wash., $80,000, by Washington Water Power Co., W. 825 Trent Ave., Spokane, for painting flood gates, exposed steel, hoists, a 330-ton overhead Gantry crane and other equipment at the Noxon Rapids Dam in western Montana. Robert Hunter of Sandpoint, Idaho, is in partnership with Harold Tate for the work. Work should be completed by next September. MH 1-

★BRIDGE PILING— Sidney, Mont.

Award to Pope & Talbot, Inc., St. Helens, Ore. by Richland County Commissioners, Donald Pentz, chairman, Courthouse, Sidney, for furnishing 2,000' of bridge piling. The contract price was .87½ per linear foot.

Award was also made to Ned Hardy, Hall, Mont., for furnishing 50,000' of bridge piling at a figure of $132 per thousand. DC 1-

■TELEPHONE FACILITIES—Worden, Mont.

Planholders announced on construction of 114.01 mi. of outside plant telephone facilities in Yellowstone County, Montana 519A for Project Telephone Co., Inc., Worden. Bids will be opened 10 a.m., January 23, at the office of Associated Engineers, Inc., 1127 Alderson Ave., Billings. Plans and specifications with above office. $10 deposit.

Planholders: Line Builders, Inc., Box 581, Billings; Mullen Construction Co., Inc., Box 378, Appleton, Wis.; Bonneville Construction Co., Box 900, Idaho Falls, Idaho; A. M. Lips Construction Co., Box 292, Faribault, Minn.; Williams Construction Co., Box 631, Lewistown; Main Electric, Inc., Box 946, Minot, N. Dak.; Max Fonnesbeck, Logan, Utah; Electric Maintenance Corp., 3808 Chicago Ave., Minneapolis, Minn.; Tri-State Construction Co., 1512 Center St., Tacoma, Wash.

The project involves 95.51 mi. of new lines and 18.3 mi. of modifications to existing lines. DM 1-10. Previous report 12-

ALASKA

GAME MANAGEMENT HEADQUARTERS— Glenallen, Alaska

Award of contract on construction of a one-story frame game management headquarters building comprising an office unit and two three-bedroom housing units in Glenallen, is still pending. Bids on the project (Proj. No. SFW 6-2) were opened in September by U.S. Fish and Wildlife Service, Mendenhall Bldg., Juneau, and were found to be over the estimated cost. Clarence Rhode, agency chief, will confer with officials in Washington, D.C., within the next few days in an effort to get action on the award procedure. A low bid of $88,0 was offered by Pacific Construction Co., Box 1051, Fairbanks, at the time of the bid opening JU 1-11. Previous report 9-1

●BRIDGES, BANK PROTECTION— Juneau, Alaska

Bids will be opened 11 a.m., February 11, by Bureau of Public Roads, room 319, Federal Bldg., Juneau, for constructing the Ghiglione and Rock Creek bridges and Toklat River bank protection, Mt. McKinley National Park, Territory of Alaska; Proj. NP 1-A1, D1, E1. Specifications may be obtained from room 311, Federal Bldg., Juneau. Bid bond 5%.

Quantities: 41,844 c.y. borrow excavation; 2,305 c.y. excavation for structures; 3,780 structural steel piles, furnished; 96 same, driven; 542 c.y. concrete; 97,640 lb. reinforcement steel; 115,645 lb. structural steel, A373; 78,695 lb. same, A242; 26,068' structural steel sheet piles, furnished; 1,165 same, driven.
SP 1-1

WATER SYSTEM REPLACEMENT— Juneau, Alaska

The City of Juneau has applied to the

Housing and Home Finance Administration for funds to finance preparation of plans and specifications and a final cost estimate to be prepared by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis, Ore., for replacement of the water system, construction of reservoirs and for new water supply facilities in Juneau. A survey has been completed by the engineering firm.
JU 1-15. Previous report 8-28

★WATER SYSTEM IMPROVEMENTS— Kake, Alaska

Award to Gastineau Contractors, Juneau, $25,753, by Alaska Public Works, Box 1181, Juneau, for water system improvements at Kake, including storage tank, pumphouse, hypochlorinator, oil space heater and pipe; Proj. Nos. Aaa 50-A-335, Aaa 50-A-200 and Aaa 50-A-197. Contract amount includes $8,000 for health center (Proj. 335), $14,893 for water lines (200), and $2,860 for school water (197).

Work will include furnishing and erecting a 15,000-gal. wood storage tank on a 20' wood tower; furnishing and erecting an 8'x10' pumphouse over an existing well; furnishing and installing a deep well pump with capacity of 900-gal.-per-hour; a hypochlorinator; oil space heater; 110' of 1¼", 485' of 4", 2,385' of 6" water pipe; nine 6" gate valves; 3 fire hydrants.
JU 1-11. Previous report 11-9

●CHANNEL PROBING, PILING— Ketchikan, Alaska

Bids will be opened for the second time at 2 p.m., A.S.T., February 5, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for channel probing and control piling installation at Dry Pass, about 90 mi. north and west of Ketchikan, and at Dry Pass, about 35 air mi. farther north, in Alaska; CIVENG-95-507-58-6. Specifications with above office and with Seattle branch office, 4735 E. Marginal Way, Seattle, Wash. Bid bond 20%.

Bids were previously advertised under CIVENG-95-507-58-5 for opening last December 17, at which time only one bid was received and subsequently rejected.

Work will consist of furnishing and operating a pile driving plant in channel probing operations for approximately 160 hours and furnishing and driving approximately 750' of untreated timber piling. The work is preliminary to channel dredging scheduled in both Rocky Pass and Dry Pass this year.
SP 1-11. Previous report 12-20

WATER SUPPLY— Kodiak, Alaska

Bids will be called about February 3 by Alaska Public Works, Box 1181, Juneau, for water supply project for Kodiak; Proj. Aaa 50-A-327.
JU 1-14

PAVING— Petersburg, Alaska

Bids will be called in February by Alaska Public Works, Box 1181, Juneau, for paving in Petersburg; Proj. Aaa 50-A-328. JU 1-14

★STREET IMPROVEMENTS— Skagway, Alaska

Award to Hildre Sand and Gravel and R. J. Sommers Construction Co., Box 1115, Juneau, $126,012, by Alaska Public Works, Box 1181, Juneau, for street improvements involving asphalt surfacing of 3.264 mi. streets and stockpiling 8,000 c.y. crushed rock for aggregate at Skagway; Proj. Aaa 50-A-281. JU 1-11. Previous report 11-14

●HYDROELECTRIC PROJECT— Sitka, Alaska

Quantities are listed below on the first phase contract of the proposed Blue Lake hydroelectric and water supply project on which bids will be opened simultaneously 1 p.m., January 30 in the City Hall at Sitka by the City Council and in the office of Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.

Quantities: 1,270' of 12" main power tunnel; 200' of 12" power intake tunnel branch; 340' of 12" diversion tunnel branch; 1,600' of 2½" pipe casing for pressure grouting at dam; 4 set up for tunnel lining; 55 set up for drilling and pressure grouting at dam; 2,200' drilling grout holes at dam; 2,500 sacks cement for pressure grouting at dam; 4,180 c.y. concrete and rock excavation for base plug of dam below elevation 200; 3,650 c.y. concrete for arch dam above elevation 200; 2,400 c.y. rock excavation for dam abutments above elevation 200; 6,000 lbs. reinforcing steel in arch dam.

The second phase on the project will add 120' to the height of the dam, and will include construction of the power house, power transmission line and steel penstock.

A select list of bidders will submit proposals on the project. No more plans or specifications are available from the engineers.

Engineering cost of the entire project is placed under $4,000,000. Cost estimated on the first phase which involves this bid call is $1,500,000.

First Phase Contract—Construct tunnel, concrete headworks, portion of a concrete arch dam across the Medvetcha River. The unlined tunnel in solid rock will be 1,800' long and 12' in diameter and will have a circular cross section. A concrete dam 400' below the outlet of Blue Lake will be constructed on bedrock estimated to lie at elevation 150', to a temporary height of elevation 240'. Elevation of the river bed is 190'.

Completion time of first phase is January 1, 1960.

The dam completion, construction of outlet works and powerhouse will be in the second phase contract on which bids will be called at a later date. Also scheduled for the future are construction of water supply pipeline and furnishing equipment for the powerhouse which will have two 3,000 kw generators.

Electricity generated will be used by the city for general domestic, commercial and industrial uses. Water will also be furnished to the pulp mill which will be constructed by Howard S. Wright & Co., Inc., Seattle, and Guy F. Atkinson, San Francisco, for the Alaska Lumber and Pulp Co.
DM 1-15. Previous report 1-11

NORTHERN CALIFORNIA

STORM DRAINAGE— Campbell, Calif.

Mayor John M. Chargin is appointing a citizens committee to work on a proposed $1,250,000 bond issue, to provide funds for needed storm drainage and firehouses in Campbell. The mayor said the bond election probably will be held in March, before the regular municipal elections. RC 1-18

★SANITARY SEWER— Emeryville, Calif.

Award to Manuel Marques, Jr., 1735 85th Ave., Oakland, $39,390, by City Council, Town Hall, Park Ave. and Hollis, Emeryville, for replacing the extensive Powell St. sanitary sewer line. The line enters Emeryville at Vallejo and Powell Sts. and follows Powell St. nearly to the Eastshore Freeway. Bids opened January 6.
RM 1-18. Previous report 12-28

★PARK CONSTRUCTION— Fairfield, Calif.

Award to Vaca Construction Co., 147 Brown St., Vacaville, $32,188, by City Council, City Hall, Fairfield, for the construction of a public park on West Texas St. in Fairfield. Bids opened January 3.
RM 1-18. Previous report 12-28

SEWER SYSTEM— Loomis, Calif.

Directors of the Rocklin-Loomis Municipal Utilities District have retained Harold S. Prescott and Associates, civil engineers, of Placerville, to draw plans and specifications for a sewer system and treatment plant. The district recently was granted a Federal loan of $30,000 to complete the engineering work. A bond election to raise money for the sewer construction will be held in April or May. If the bond issue passes the work could begin this summer and the sewer system to serve about 3,200 residents of Rocklin, Loomis and surrounding areas could be completed in about a year. RC 1-18

SEWER FARM IMPROVEMENT— Los Banos, Calif.

William Bedesen, Los Banos city engineer, has forwarded plans for the construction of an estimated $34,000 sewer farm improvement project to the State Department of Public Health for approval. The sewer farm plans are on the construction of a series of six ponds, levees to enclose the ponds, the installation of a pumping system, pipe and release gates. About 37,600 c.y. of earth will be moved to build the ponds within an area of 40 areas. RC 1-18

●STREET RESURFACING—Martinez, Calif.

Bids will be opened 11 a.m., January 28, by Contra Costa County Board of Supervisors, Martinez, for resurfacing a portion of Alpine Road and resurfacing of Beau Rivage and Golden Gate Ave.; Proj. Nos. 0965-57-2, 3, 4. Specifications available from Contra Costa County Public Works Dept., Box 509, Martinez. Completion time: 30 days.

Quantities: 10 c.y. removing concrete; 1,370 tons untreated base; 670 tons plantmixed surfacing; 10 tons liquid asphalt SC-1 (prime coat); 175' plantmixed dike; 2 type C inlet; 2 concrete "L" head wall; 50 c.y. concrete lined ditch; 4 install guide posts and markers; 34' of 12", 4' of 15" corrugated metal pipe (16 gage); 6 adjust manhole and lamphole covers; 6 adjust water valve covers; 24 remove and reset mail boxes.
RM 1-18

●PLANTMIX PAVING— Martinez, Calif.

Bids will be opened 11 a.m., January 28, by Contra Costa County Board of Supervisors, Martinez, for constructing Minaker Drive extension from Wilbur Ave. north 0.1 mi.; Proj. No. 7185-57-1. Specifications available from Contra Costa County Public Works Dept., Box 509, Martinez. $2.50 charge.

Quantities: 24,000 gals. furnishing and applying water; 96 c.y. roadway excavation; 400 c.y. imported borrow; 825 tons untreated base; 3.5 tons liquid asphalt SC-1 (prime coat); 300 tons plantmixed surfacing.
RM 1-18

WATER SUPPLY— Oakland, Calif.

Preliminary plans for a $275,000,000 East Bay Municipal Utility District construction and development program have been approved by the Bechtel Corporation, an independent engineering firm, after four months of study. District engineers now will make a final study of the plan, which includes engineering and economic features to meet the area's needs for water in the next 10 years. John W. McFarland, EBMUD general manager, said details of the plan and an announcement of the start of construction will be made after the EBMUD engineers finish the final study, probably in about 30 days.
RC 1-18. Previous report 8-31

★DRAINAGE LINE IMPROVEMENT— Oakland, Calif.

Award to Ora E. Elliott, 8931 Elrod Drive, Castro Valley, $52,826, by Alameda County Board of Supervisors, Court House, Oakland, for improvement of the drainage line in the vicinity of Dumbarton Road and Cherry Road in Newark. Bids opened January 7. OTHER LOW BIDS: S and Q Construction Co., 48 S. Linden Ave., South San Francisco, $53,665; John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley, $53,889. RM 1-18. Previous report 1-4

MILITARY CONSTRUCTION PROGRAM— Sacramento, Calif.

Following are projects included in the current military construction program to be executed under the supervision of the Sacramento District Corps of Engineers. Costs shown indicate roughly the scope of work. Advertising dates are contingent on receipt of necessary funds.

BEALE AFB—Telephone Support, estimated $200,000 to $250,000, bid call expected in January; Water Distribution and Sewage Collection System, estimated $250,000 to $300,000, bid call January; Control Tower,

$125,000 to $175,000, February; Base Operations, $175,000 to $225,000, February; Miscellaneous Roads and Fence, $450,000 to $550,000, February; Base Communications, $125,000 to $150,000, February; Navigation Aids-GCA, ILAS and UHR-Direct Finding, etc., $175,000 to $200,000, March; Maintenance Dock—Utilities, Paving and Roads, $1,400,000 to $1,700,000, March; Storage Base AV Fuel, $125,000 to $175,000, April.

MATHER AFB—Operational Apron and Hydrant Fueling System, estimated $3,000,000, bid call expected in January; Storage Base Demineralize Water, $50,000 to $75,000, January; Storm Drainage System, $75,000 to $100,000, March; Operations Squadron, $150,000 to $200,000, March.

TRAVIS AFB—Electrical Distribution—480 Volt Electrical Outlets, estimated $150,000 to $200,000, bid call expected in February; Base Communications, $50,000 to $100,000, March; Hydrant Fueling, Jet, $700,000 to $800,000, March.

RM 1-18

▲OPERATIONAL APRON EXTENSION, HYDRANT FUELING SYSTEM—
Sacramento, Calif.

Bids received by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for operational apron extension and additions to hydrant fueling system, Beale Air Force Base, Yuba County, Calif.; Serial No. ENG-04-167-58-7. Work on operational apron extension includes removal and disposal of fence; excavation and embankment; subbase and base courses; portland cement and asphaltic concrete pavement; drainage, lighting, underground fueling, electrical and communication systems; striping and marking. Additions to hydrant fueling system include an operating storage pumphouse having eight 50,000 gal. tanks, eight 300 gpm pumps, eight separators, control house, and a collection tank; fueling, defueling, power and control lines from pumphouse to apron serving 20 fuel outlets through 4 lateral control pits; site development at pumphouse and an access road. Bid opening on the job extended from December 20 to January 7. LOW BIDS: R. A. Westbrook, Inc., Morrison-Knudsen Co., Inc., H. Earl Parker, Inc., 6431 Elvas Ave., Sacramento, $1,881,315 (joint venture); Madonna Construction Co., Box 910, San Luis Obispo, $1,969,891; John Delphia and Fred J. Early Jr. Co., Inc., Box 607, Patterson, $1,975,583 (joint venture).

RM 1-18. Previous report 12-14

▲ELECTRICAL DISTRIBUTION SYSTEM—
Sacramento, Calif.

Bids received by Corps of Engineers, Wright Bldg., 1209 Eighth St., Sacramento, for construction of additions to and alterations of the existing electrical distribution system, aerial and underground, including addition to existing substation, manholes, ducts, cables, street lighting, other fixtures, transformers, complete with all fittings, switches, fusing, conduit, wiring, fencing, and all pertinent work at Beale Air Force Base, Yuba County, Calif. Spec. No. 2365; Ser. No. ENG-04-167-58-5. Bids opened January 7. LOW BIDS: H. Earl Parker, Inc., R. A. Westbrook, Inc., Morrison-Knudsen Co., Inc., 6431 Elvas Ave., Sacramento, $174,920 (joint venture); Ferrero Electric Co., Box 1431, Merced, $179,231; Collins Electrical Co. Inc., Box 879, Stockton, $186,360. RM 1-16. Previous report 12-14

■STATE HIGHWAY PROJECT—
Sacramento, Calif.

Planholders announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids will be opened January 29.

SAN MATEO COUNTY—Construction of bus turnouts, sidewalks, highway lighting and a pedestrian bridge and stairway at the Third Ave. Interchange, on Bayshore Freeway in San Mateo.

Planholders: Piombo Construction Co., Box 935, San Carlos; Bragato Paving Co., 500 Bragato Road, Belmont; Bo-Son Inc., 840 Sutter Ave., Palo Alto; L. C. Smith Co., 225 19th Ave., San Mateo; Dan Caputo, 650 Race St., San Jose; Macco Corp., 14409 S. Paramount Blvd., Paramount; S & Q Construction Co., 48 S. Linden Ave., South San Francisco; O. C. Jones & Sons, 1520 4th, Berkeley; Ben C. Gerwick, Inc., 417 Market, San Francisco; Oscar C. Holmes, Inc., 927 Arguello, Redwood City.

PB 1-18. Previous report 1-11

■STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Planholders announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction jobs for which bids will be opened January 22.

X-S.J-24-Lod,B—About 5.1 mi. in length, widening and shoulders to be graded and surfaced with plantmixed surfacing on untreated base, and existing pavement to be surfaced with plantmixed surfacing, between Lodi and Route 97, San Joaquin County.

Planholders: A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento; Griffith Company, 1060 S. Broadway, Los Angeles; Martin Bros., Inc., 2525 Concord Ave., Concord; Claude C. Wood Co., 686 Lockeford St., Lodi; Independent Construction Co., 741 50th Ave., Oakland; Doug-Lynn, Inc., Belmont; Tri-Valley Construction Corp., 42235 N. Sierra Highway, Lancaster; Dicco, Inc., Box 217, Station A, Bakersfield; M.J.B. Construction Co., Inc., Box 1251, Stockton; A. G. Raisch Co., Box 458, San Rafael; Rice Bros., Inc., 900 Victor Road, Lodi; Lee J. Immel, 3030 San Pablo Ave., San Pablo.

IV-C.C-7-Rch,C,Pin,Her,D-Steel sign structures to be constructed and sign illumination systems to be furnished and installed, in and adjacent to Richmond, Pinole, and Hercules, between Road No. 24 and 0.3 mi. north of Hercules, Contra Costa County.

Planholders: R. Flatland, 1205 Harrison St., San Francisco; Kenneth S. Scheyer, 1221 King Drive, El Cerrito; Charles L. Harney, Inc. 575 Berry St., San Francisco; Herrick Iron Works, 28400 Clawiter Rd., Hayward; Coopman Electric Co., 81 14th St., San Francisco; Stanley Pearce Electric Co., 1808 Springs Rd., Vallejo; Jones Electric Co., Inc., 22001 Meedland Ave., Hayward; Newbery Electrical Corp., 1038 Venice Blvd., Los Angeles; Fred Eggers Co., Box 477, Bloomington; Fischbach and Moore, Inc., 646 N. Beachwood Dr., Los Angeles; Ets-Holin and Galvan, 551 Mission St., San Francisco; O. C. Jones and Sons, 1520 Fourth St., Berkeley; S and Q Construction Co., 48 S. Linden Ave., South San Francisco; Marshall Electric Co., 1701 Industrial Rd., San Carlos.

IV-Mrn-1-A—Traffic signal and flashing beacon systems to be furnished and installed, highway lighting to be modified and channelization to be constructed, on Redwood Highway, at Entrada Drive and at Freitas Parkway, Marin County.

Planholders: Ceccotti and Son of Marin Inc., 15641 Redwood Highway, Corte Madera; R. Flatland, 1205 Harrison, San Francisco; Coopman Electric, 81 14th St., San Francisco; Puimbo and Bresnan, San Rafael; L. H. Leonardi Electrical Construction Co., 717 Francisco Blvd., San Rafael; A .G. Raisch Co., Box 458, San Rafael; Abbett Electric Co., 85 Federal St., San Francisco; Reliance Enterprises, 427 S. Davis, Santa Rosa; O. C. Jones and Sons, 1520 Fourth St., Berkeley; Ecco Electrical Construction Co., 1301 Evans Ave., San Francisco.

Z-Sac-11-G,Ist,D—About 9.2 mi. to be paved with plantmixed surfacing on untreated base and existing pavement, between 1.8 mi. north of Rio Vista Bridge and 1.6 mi. west of Walnut Grove, Sacramento County.

Planholders: A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento; Martin Bros. Inc., 2525 Concord Ave., Concord; Delta Construction Co., Box 457, Rio Vista; Lee J. Immel, 3030 San Pablo Ave., San Pablo; Claude C. Wood Co., 686 Lockeford St., Lodi; Independent Construction Co., 741 50th Ave., Oakland; Doug-Lynn Inc., Belmont; Tri-Valley Construction Corp., 42235 N. Sierra Highway, Lancaster; Antioch Paving Co., Inc., Rt. 1, Box 640, Antioch; Dicco Inc., Box 217, Station A, Bakersfield; Granite Construction Co., Box 900, Watsonville; Stanfield and Moody, Box 352, Tracy; Rice Bros. Inc., 900 Victor Rd., Lodi; Asta Construction Co., 33 N. Front St., Rio Vista; Huntington Bros., Box 446, Napa; O. C. Jones and Son, 1520 Fourth St., Berke... Fay Willis Corp., Rt. 1, Box 223, Anti... Eugene G. Alves Construction Co., ... 950, Pittsburg. PB 1-18. Previous report ...

●PAVING, SEWERS, WATER DISTRIBUTION SYSTEM— **Sacramento, Ca...**

(Estimate $53,659)

Bids will be opened 5 p.m., January ... by City Council, City Hall, Sacramento, ... improvement of Wentworth Ave. from M... terey Way to Freeport Blvd.; Res. ... Plans with E. A. Fairbairn, city engin... City Hall.

Quantities: 2,703 c.y. excavation and gr... ing; 66,623 sq. ft. asphaltic concrete pa... ment; 3,732' curb and gutter, cut No. ... 16,590 sq. ft. concrete sidewalk, 3½" thic... 878 sq. ft. same 6" thick; 6 gutter drains, ... No. 11; 4 gutter drains to reset; 2 No. 3 ma... holes; 7 manholes to reconstruct; 478' of ... 390' of 6", 550' of 8" vitrified clay sew... pipe; 5,871 sq. ft. concrete slab to remov... 44 trees to remove; 15 mail boxes to remo... and replace; 50' of hedge to remove; 1 wa... distribution system. PB 1-...

●STATE HIGHWAY PROJECT— **Sacramento, Cal...**

Bids will be opened 2 p.m., February ... by California Division of Highways, ... Public Works Bldg., Sacramento, on the fo... lowing highway construction. Plans wi... state highway engineer at above address.

IV-SCR-STATE PARKS—About 1.1 mi. ... existing roadways to be widened and re... faced with plantmix surfacing on untreate... base and existing surfacing, at New Brighto... Beach State Park and at Natural Bridg... Beach State Park, Santa Cruz County. PB 1-...

●STATE HIGHWAY PROJECT— **Sacramento, Cal...**

Bids will be opened 2 p.m., February ... by California Division of Highways, ... Public Works Bldg., Sacramento, on the ... following highway construction. Plans wi... state highway engineer at above addres...

X-CC,SOL-7-D,A,F — Approaches to ... graded and surfaced with plantmix su... facing over cement treated base, and exis... ing bridge renovations and connections wi... newly constructed Valona interchange stru... tures to be constructed, between 0.6 mi. ... south and 0.5 mi. north of Carquinez Stra... bridge, Contra Costa and Solano counties. PB 1-...

▲STATE HIGHWAY PROJECTS— **Sacramento, Cal...**

Bids received January 15 by California Division of Highways, 510 Public Wor... Bldg., Sacramento, on the following hig... way construction.

IV-C. C-75-W1C — Traffic signal syste... and highway lighting to be furnished an... installed, in Walnut Creek on Mt. Diab... Blvd., at California Blvd., Contra Cos... County.

LOW BIDS: Frank Electric Co., Inc., ... C St., Hayward, $9,915; Collins Electric... Co., 611 W. Fremont St., Stockton, $10,62... Marshall Electric Co., 1701 Industrial Roa... San Carlos, $11,050.

X-S. J-5-A, B—About 3.4 mi. to be grade... and surfaced with plantmixed surfacing o... cement treated base over imported subba... material, steel sign structure and highwa... lighting and sign illumination systems t... be furnished and installed, between Ea... Tracy Overhead and Grant Line Road, San... Joaquin County.

LOW BIDS: M. J. Ruddy & Son, Route ... Box 1419-A, Modesto, $435,885; A. Teichert ... & Son, Inc., 1931 Stockton Blvd., Sacra... mento, $461,632; Frederickson Bros., 129 ... 65th St., Emeryville, $464,821.

PB 1-18. Previous report 12-3

▲HYDRANT REFUELING SYSTEMS— **San Francisco, Calif.**

Bids received by Corps of Engineers, ... New Montgomery St., San Francisco, for ... modifications to existing multiple-outlet-it-... fueling systems consisting of adding gauge... and gauge protectors, and relocating vacuum ... sensing points at Castle Air Force Base, ... Merced County, Calif.; ENG-04-203-58-3... Bids opened January 7. LOW BIDS: Sierra ...

Construction Co., Box 383, Merced, $4,999; Altermatt-Action Ventures, Inc., 572 Bosworth St., San Francisco, $6,806; Wallace Mechanical Corp., Box 524, Alameda, $7,689.
RM 1-18. Previous report 12-14

★**GRADING, BRIDGE—**
San Francisco, Calif.

Award to M. J. Coleman, Inc., Box 445, Ukiah, $301,416, by Bureau of Public Roads, 102 Old Mint Bldg., Fifth and Mission Sts., San Francisco, for construction of Project California F.D.R. 4202-A, Blue Creek, Klamath National Forest, Siskiyou County, Calif. Project consists of grading and constructing a bridge, and begins at a point on an existing road approximately 2½ mi. south of Blue Nose Bridge on Klamath River Highway and extends southerly 6.48 mi.
RM 1-18. Previous report 1-4

★**LAYING PIPE—** **San Jose, Calif.**

Award to M.G.M. Construction Co., Box 1056, Concord, $16,066, by Santa Clara Valley Conservation District, San Jose, for laying pipe to serve as an extension of Vasona Canal between Saratoga and Calabazas Creeks, Santa Clara County. RM 1-18

●**STREET IMPROVEMENTS, DRAINAGE DITCH—** **San Mateo, Calif.**

Bids will be opened 10 a.m., January 20, by City Council, San Mateo, in office of City Manager, Room 1, City Hall, San Mateo, for Leslie St. improvements and drainage ditch construction from 405' more or less southeast of 19th Ave. to 700' more or less southeast of 20th Ave. Certified check or bid bond 10%. Plans and specifications available from office of City Engineer, Room 30, City Hall, San Mateo. BY 1-18

●**GRADING, PAVING, SIDEWALKS—**
San Mateo, Calif.

Bids will be opened 10 a.m., February 3, by City Council, San Mateo, in office of City Manager, Room 1, City Hall, San Mateo, for grading, paving, construction of sidewalk, curb and gutter at Beresford Park and Parkview Way. Plans available at Room 30, City Hall, San Mateo. Certified check, cashier's check, or bid bond 10%. BY 1-18

NEWELL CREEK DAM—
Santa Cruz, Calif.

The Federal government has advanced $30,000 to the Santa Cruz County Flood Control and Water Conservation District to pay for preliminary plans for a $1,100,000 dam and water conservation project in Santa Cruz County. Commissioner John C. Hazeltine of the Community Facilities Administration announced approval of the interest-free loan. The project will include a dam and reservoir on Newell Creek, with a spillway and outlet works to serve the City of Santa Cruz and the San Lorenzo Valley and Scotts Valley areas.
RC 1-18. Previous report 10-5

●**STREETS, CURBS, SIDEWALKS—**
Stockton, Calif.

Bids will be opened 8 p.m., January 27, by City Council, City Hall, Stockton, for constructing curbs, gutters, and sidewalks and paving streets in portions of Fair Oaks North and Victory Park Villas in Stockton, Proj. No. 57-3. Plans available from city engineer at above address. $5 deposit. Cash, cashier's check, certified check or bid bond 10%. RC 1-18

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

ELEMENTARY SCHOOL
BIDS CLOSE 8 P. M., JANARY 28
Onalaska, Washington
NOTICE TO CONTRACTORS

NOTICE is hereby given that the Onalaska School District No. 300, Lewis County, Washington, hereinafter called the OWNER, will receive separate bids on General, Mechanical and Electrical Work for an elementary school building located in Onalaska, Washington. (A Combined General, Electrical and Mechanical Bid may also be submitted.) Such bids must be sealed and will be received up to 8 p.m., January 28, 1958, at the office of the School Administration, Onalaska, Washington. All bids will there and then be opened and read aloud. Bids received after the above-named date and time cannot be considered.

Each bid must conform and be responsive to the following:

The Information for Bidders, The Specifications, all Drawings and other documents, such as; Addenda, issued not later than five (5) calednar days before the bid opening date. All above-named items are part of the Contract Documents and shall, together with the Contract Agreement, constitute the actual Contract. All Contract Documents required for preparation of bids shall be on file and open for public inspection at the following places:

McCOY & BRADBURY, 7007 Highway 99, Vancouver, Washington.

Builders' Exchange, Builders' Exchange Bldg., Portland, Oregon.

Associated General Contractors, Seattle, Washington.

Bonafide contractors may obtain such documents from the Architect upon deposit of $25.00. Plan holders who do not enter a bonafide bid and/or who do not return plans and specifications undamaged by at least ten (10) days prior to bid opening will forfeit their deposits.

Each bid shall be made out on the Bid Form furnished by the Architect and shall be accompanied by the required surety as follows:

A certified or cashier's check for five (5%) per cent of the maximum amount of the bid or in lieu of such check, a Bid Bond in the same amount. Checks or Bid Bonds shall be made in favor of the Owner. Such check or Bid Bond shall be given as surety that the bidder shall execute the Contract if awarded him.

The successful bidder shall be required to post a 100% Performance Bond and a 50% Payment Bond before being authorized to proceed with the work. Said Bond shall be posted within five (5) calendar days after official notice by the OWNER to the selected Contractor that the award has been made.

The Owner reserves the privilege of rejecting any or all bids and to waive any irregularities or informalities in any bid or in the bidding.

No bidder shall be permitted to withdraw his bid within a period of thirty (30) days after the actual date on which the bids are opened.

WILBUR STONEX,
Clerk, Board of Directors, Onalaska School District No. 300, Lewis County, Onalaska, Washington.
6022—1-18

HIGH SCHOOL BUILDING
BIDS CLOSE 7:30 P. M., JANUARY 21
Kennewick, Washington
NOTICE TO CONTRACTORS

1. **NOTICE TO CONTRACTORS**
Sealed bids will be received by the BOARD OF DIRECTORS, KENNEWICK SCHOOL DISTRICT NO. 17 in the library of the Kennewick Senior High School, Kennewick, Washington, until 7:30 P.M., Tuesday, January 21, 1958, for (a) General Contract, (b) Mechanical Contract, and (c) Electrical Contract, separately, for the construction of a JUNIOR HIGH SCHOOL BUILDING, and the said bids will then and there be publicly opened and read aloud. Bidders and others properly interested are invited to be present at the bid opening. Bids received after the time fixed for opening cannot be considered.

2. **BID DOCUMENTS**
Specifications, including bid and contract documents, and drawings, may be examined at the office of the Architect, John S. Villesvik, 109 North Third Street, Yakima, Washington, at the plan centers in Yakima, Tri Cities, Spokane, Seattle, Portland, Tacoma, Wenatchee, Moses Lake, and may be obtained at the Architect's office upon deposit of a check payable to the Architect in the amount of $25.00 for each set.

3. **REFUND OF DEPOSITS**
The full amount of deposit for one set of documents will be refunded to general, mechanical, or electrical contractors upon return of the documents in good condition to the Architect's office within 10 days of the time set for opening bids. Other deposits will be refunded with deductions for the actual cost of reproducing the documents, under the same conditions, unless the documents are returned within 48 hours after taking them out. If returned within four days, one-half of this cost will be refunded. Time consumed by the mails is in addition to the above.

4. **RIGHT TO REJECT BIDS**
The owner reserves the right to reject any or all bids and to waive informalities.

BY ORDER OF THE BOARD OF DIRECTORS, KENNEWICK SCHOOL DISTRICT #17
6008—12-20, 27; 1-3

MULTIPURPOSE SCHOOL BUILDING
BIDS CLOSE 2 P.M., JANUARY 22
Mercer Island, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of the School Board, School District No. 400, Mercer Island, King County, Wash., at the office of the School Superintendent at Mercer Crest School, 86th S.E. and S.E. 42nd, Mercer Island, Wash., until 2:00 p.m., January 22, 1958, for the construction of the Multipurpose Building for Mercer Island High School, and will then and there be opened and publicly read aloud. Bids received after the time set for opening cannot be considered.

Separate bids should be submitted for General, Mechanical and Electrical Work respectively.

Plans and specifications and form of contract documents may be examined at the offices of the Architects, Bassetti & Morse, 1602 Tower Bldg., Seattle, at the office of the Associated General Contractors of America, 215 West Harrison Street, and at the Plan Bureau, 2413 Western Avenue, Seattle. Bona fide bidders may obtain one set of plans, specifications and documents upon deposit of a check payable to Bassetti & Morse in the amount of $50.00 for General Work and $25.00 for Mechanical or Electrical Work. Additional sets of plans may be obtained upon payment of the actual cost of blueprinting.

The deposit will be refunded to actual bidders upon return of the documents in good condition within ten (10) days after

the time set for the opening of bids.

Each bid must be accompanied by a certified check, cashier's check, or bid bond with a State-licensed surety or sureties in an amount of not less than five per cent (5%) of the base bid, payable to Mercer Island School District No. 400.

The right is reserved to accept or reject any or all bids and to waive claims.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty (30) days.

By order of Mercer Island School District No. 400, Mercer Island, King County, Washington.

ROBERT S. STUDEBAKER
Supt. of School District

6016—1-3, 7, 14

SCHOOL ADDITION

BIDS CLOSE 3 P.M., JANUARY 23

Mercer Island, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Directors of Mercer Island School District No. 400, in the office of the Superintendent of Mercer Island School District No. 400, located in the Mercer Crest School, until 3 P.M., January 23 for general work only, on an addition to the Mercer Crest Elementary School. Bids will then and there be publicly opened and read aloud. Plans and specifications may be secured from the architects, Wortman and Wilkins, at 309 Marion Building, Seattle, upon deposit of $25 for each set of plans. The deposit will be refunded upon return of documents in usable condition within ten days after opening of bids. The right is reserved to reject any or all bids and to waive informalities. Bid bond will be required in amount of five per cent (5%) of bid amount.

By order of Board of Directors
Robert S. Studebaker, Superintendent

6021—1-8, 14, 21

BRIDGES

BIDS CLOSE 11 A. M., P.S.T., FEBRUARY 11

Juneau, Alaska

NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10, January 8, 1958, Juneau, Alaska. Sealed bids, in single copy for furnishing all labor, equipment, and materials and performing all work for Project NP 1-A1, D1, E1, Mt. McKinley National Park, Territory of Alaska, described herein will be received until 11:00 a.m., P.S.T., February 11, 1958, in Room 319, Federal Building, Juneau, Alaska, and then public opened. This project consists of borrow excavation, case 1—41,844 cu. yds., excavation for structures—2,305 cu. yds., structural steel piles 10BP42 furnished—3,780 lin. ft., structural steel piles 10BP42 driven—96 each, class "A" concrete—542 cu. yds., reinforcement steel interm. grade—97,640 lbs., structural steel A373—115,645 lbs., structural steel A242—78,695 lbs., structural steel sheet piles furnished—26,068 lin. ft., and structural steel sheet piles driven—1,165 each. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the District Engineer, Bureau of Public Roads at Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid.

E. H. SWICK,
Regional Engineer.

6023—1-18, 25

DRILLING EXPLORATORY WELL

BIDS CLOSE 7:30 P. M., JANARY 27

Moscow, Idaho

NOTICE TO CONTRACTORS

Sealed bids on the unit basis will be received by the City Council of Moscow, Idaho, on Monday, January 27th, 1958, for the drilling of an exploratory well within a present drilled hole located adjacent to the Northern boundary line of the City.

Bids are requested on the following basis: Drilling to accommodate 16-inch casing in sedimentary formation, 250-550 feet; Drilling 16-inch hole in basalt formation, 550-750 feet; Furnishing and installing 16-inch casing in existing open 19-inch hole through basalt formation, 250-550 feet; Furnishing, installing, driving 16-inch casing in sedimentary formation, to include sampling, 250-550 feet; Furnishing and installing well screen; Furnishing, installing and operating test pump.

Each bid shall be sealed and addressed to the Mayor and City Council of Moscow, Idaho, and shall be filed with the City Clerk at the City Hall on or before 5 P.M. on Monday, January 27, 1958. Bids will be publicly opened and read at a Council meeting to be held at the City Hall at 7:30 P.M. on said date.

All bids must be made on forms furnished by the City Engineer and shall be accompanied by a certified check in the amount of Five (5) per cent of the total amount of the computed bid.

Plans, specifications, bid forms and contract forms may be obtained at the office of the City Engineer, City Hall, Moscow, Idaho.

The City Council reserves the right to reject any or all bids, or to accept the bid deemed to be in the best interest of the City, or to waive informalities.

R. G. FREDEKIND,
City Clerk.

6024—1-18, 25

SCHOOL FURNITURE

BIDS CLOSE 8 P. M., JANUARY 29

Centralia, Washington

ADVERTISEMENT FOR BIDS

Bids will be opened Wednesday evening, January 29, 1958, at 8:00 P. M., in the office of the Board of Directors at 400 West Pear Street, Centralia, Washington, for delivery and installation, fob. Centralia, for furniture for the Centralia Junior High School.

A copy of the specifications may be secured in the office of the board secretary or will be mailed upon request.

Each bid shall be accompanied by a certified check, cashier's check, or bid bond, made payable to Centralia School District No. 401, in an amount not less than five percent (5%) of the bid.

No bidder may withdraw his bid after the hour set for the opening thereof or before award of the contract, unless said award is delayed for a period exceeding thirty (30) days.

The Board reserves the right to accept or reject any or all bids or to waive any irregularities and informalities in any bid or in the bidding.

BOARD OF DIRECTORS CENTRALIA JOINT SCHOOL DISTRICT NO. 401, LEWIS AND THURSTON COUNTIES, WASHINGTON.
By Eva J. Cobb, Secretary.

6009—12-21

EXCAVATING, PAVING, INSTALLING CURB AND GUTTER

BIDS CLOSE 7:30 P. M., FEBRUARY 3

Sidney, Montana

NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN by the City Council of the City of Sidney, Montana, that said council will be in session on the 3rd day of February, 1958, at the hour of 7:30 o'clock P.M. at the Council Chambers of the City Hall in the City of Sidney, Montana, to receive sealed proposals for the furnishing of all labor, material and equipment necessary for the purpose of excavating, laying gravel base, paving with asphaltic mix, installing concrete curb and gutter in and upon the city streets in the area of Special Improvement District No. 43 of the City of Sidney, Montana.

Plans and Specifications are on file in the office of the City Clerk at Sidney, Montana. Copies of said plans and specifications and other bidding and contract documents may be obtained by depositing $30.00 with the City Clerk of the City of Sidney, Montana, or with L. W. Burdick, c/o Willard Webster, Box 1134, Williston, North Dakota, for each set of documents so obtained. $20.00 of the deposit will be returned to those who return the documents in good condition five days after the date set for opening of bids.

All proposals or bids offered, shall be accompanied by a check payable to the C certified by a responsible bank for amount which shall be not less than of the aggregate of the proposal.

Said proposals or bids shall be delive to the Clerk of said City Council, and City Council shall, in open session, publ open and examine and declare the provided, however, that no proposal or shall be considered unless accompanied said certified check. The City Council reject any and all proposals or bids it deem this for the public good.

By order of the City Council this 6th of January, 1958.

HAZEL HOUGLUM,
City Clerk

Passed, Approved and Adopted this day of January, 1958.

HAROLD MERCER,
Mayor

6025—1-18

HOUSING PROJECT

BIDS CLOSE 2 P. M., JANUARY 28

Ephrata, Washington

NOTICE TO CONTRACTORS

The Housing Authority of Grant Coun Washington, will receive bids for Constru tion of Low-Rent Housing Projects WASH 14-3 at Ephrata, WASH 14-5 at Quin and WASH 14-6 at Soap Lake, consisting Duplex dwelling units and site develope work on sites in the respective cities 2:00 P. M. Standard Time on the 28th of January, 1958, at the office of the Hous Authority of Grant County, Washington, the Administration Building, Victory Terra Project (Post Office Box 296), Ephra Washington, at which time and place if or more bids are received, allw bids will publicly opened and read aloud. Forms contract documents, including plans specifications are on file at the office the Housing Authority of Grant Coun Washington, in the Administration Buildi Victory Terrace Project, Ephrata, Washington, and at the office of John I. Mattson Associates, Architect, at 636 1st Avenue S Ephrata, Washington. Copies may be tained at the office of the Housing Author of Grant County, Washington, at the abo address by depositing $25.00 for each set documents. Such deposit will be refund if documents are returned in good condit within 10 days after bid opening. A b guaranty and performance and payme bonds as stipulated in the Form of Bid w be required. No less than the minim salaries and wages as set forth in the Spec fications must be paid on this work. T Housing Authority of Grant County, Wash ington, reserves the right to reject any all bids or to waive any informalities the bidding, and if only one bid is receiv to return it unopened to the bidder. No b shall be withdrawn for a period of thir (30) days subsequent to the opening of bid

HOUSING AUTHORITY OF GRANT COUNTY
By Harvey Fitts,
Title Executive Director

6015—1-4

JUNIOR COLLEGE

BIDS CLOSE 8 P. M., JANUARY 23

Mount Vernon, Washington

NOTICE TO CONTRACTORS

Notice is hereby given that Union Hig School District No. 1, Skagit County, Mou Vernon, Washington, will receive bids up 8:00 P. M. o'clock P.S.T., on January 23rd 1958, at the High School Building in Mou Vernon, Washington, at which time all bid will be opened and publicly read aloud f the construction of SKAGIT VALLE JUNIOR COLLEGE. Work will be let three (3) separate contracts covering Ge eral Construction, Mechanical work, an Electrical work.

Each bid shall be in accordance with th plans, specifications and other contract docu ments now on file with the Superintende of Schools, High School Building, Mou Vernon, Washington, and at the Office o Hovind, Harthorne & Smith, Architects, 150 Westlake North, Seattle 9, Washington.

(Continued on page 58)

Bids will be opened . . .

PLANS HAVE BEEN COMPLETED
BIDS ARE WANTED for Construction
Equipment
Supplies
Materials

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COPY RECEIVED WEDNESDAY MORNING REACHES OUR READERS SATURDAY

(Continued from page 56)

where copies may be obtained by depositing $50.00 for each set. The deposit will be refunded upon the return of plans and specifications in good condition within seven days after opening of bids, and upon submission of a bona fide bid. Plans must be returned to the Architect within 48 hours after issuance if no bid is to be submitted. Failure to comply with any of three conditions will forfeit the deposit.

Each bid shall be accompanied by a certified check, cashier's check, or bid bond payable to Union High School District No. 1, Skagit County, Mount Vernon, Washington, in the sum of not less than 5% of the amount of the bid.

No bidder may withdraw his bid after the time set for opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

The Board of Directors of Union High School District No. 1 reserves the right to reject any or all bids and to waive all informalities in the bidding.

Dated this December 20, 1957.

Mr. W. T. Phipps,
Clerk, Union High School District No. 1,
Skagit County,
Mount Vernon, Washington.

6010—12-24, 31; 1-7

LATERALS, SUB-LATERALS
BIDS CLOSE FEBRUARY 4
Lindsay, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5004) will be received at Lindsay, California, until February 4, 1958, for furnishing labor and materials for Laterals 119.6 and 122.5 and Sublaterals, Unit 1 Extensions, Southern San Joaquin Municipal Utility District, Friant-Kern Canal Distribution System, Central Valley Project, California. Location near Delano, California. Principal items are 80,020 cu. yds. excavation; 66,900 lin. ft. concrete pipe lines, 12- to 45-inch; 132 cu. yds. concrete; furnishing and installing 2 pumping units and other equipment and materials; and other work. Completion time 300 days. For particulars, address Bureau of Reclamation, P. O. Box 525, Lindsay, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

6011—12-28

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., FEBRUARY 4
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, February 4, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items nos. 1 to 7 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing a Bituminous Surface Treatment, Paving with Asphaltic Concrete, Constructing a Reinforced Concrete Slab Bridge and Installing an Illumination System on 10.554 miles of State Highways Numbers 3, 8 and 3-R and a Kennewick City Street in Benton County, JUNCTION PSH NO. 8 TO KENNEWICK AVENUE, ET AL, FAP Nos. F-047-2(4) and US-0452 (3), involving about 73,995 cubic yards of Common Excavation and Borrow, 73,375 tons of Crushed Surfacing, Ballast, Crushed Cover Stone and Mineral Aggregates, 475 tons of Asphalt Cement, 9,580 tons of Asphaltic Concrete, 162 linear feet of Integral Cement Concrete Curb and Sidewalk, 7,772 linear feet of Cement Concrete Curb and Gutter, 348 linear feet of Cement Concrete Gutter, 4,193 linear feet of Cement Concrete Curb, 3,420 linear feet of Asbestos Cement Pipe, 176 linear feet of Conduit Pipe, 135 linear feet of Steel and Iron Pipe, 8,830 linear feet of Concrete Pipe, 291 linear feet of Metal Pipe, 303 linear feet of Special Irrigation Pipe, 154 linear feet of Beam Guard Rail, 217 Guide Posts, 2 lump sum bids for Installation of Illumination Systems, a lump sum bid for Installation of Signal System, 193 cubic yards of Concrete, 36,000 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 255 cubic yards of Concrete and 64,000 pounds of Steel Reinforcing Bars), 224 linear feet of Standard Bridge Railing and other items.
2. Constructing a Steel Truss Bridge on 0.058 mile of Primary State Highway No. 5 in Yakima County, NACHES RIVER BRIDGE, FAP No. U-018-2(2), involving about 707 cubic yards of Concrete, 62,000 pounds of Steel Reinforcing Bars, 2 lump sum bids for Structural Steel (about 632,000 pounds) and other items.
3. Constructing a Steel Girder Bridge and Shoofly on Primary State Highway No. 1 in Clark County, N. P. RAILWAY UNDERCROSSING-YACOLT BRANCH, FAP No. IG-001-1(34), involving about 11,000 cubic yards of Common Excavation, 320 cubic yards of Ballast, 610 linear feet of Metal Pipe, 578 cubic yards of Concrete, 47,000 pounds of Steel Reinforcing Bars, a lump sum bid for Structural Steel (about 233,000 pounds), a lump sum bid for Cast Steel, a lump sum bid for Ornamental Metal Railing and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Constructing a Reinforced Concrete Box Girder Bridge and Installing Drainage Facilities on 0.037 mile of Primary State Highway No. 3 in Whitman County, G. N. RAILWAY OVERCROSSING NEAR STEPTOE, FAP No. F-037-2(4), involving about 202 linear feet of Metal Pipe, 64 linear feet of Concrete Pipe, a lump sum bid for Superstructure (about 418 cubic yards of Concrete and 130,300 pounds of Steel Reinforcing Bars), 378 linear feet of Standard Bridge Railing, 148 cubic yards of Concrete, 32,020 pounds of Steel Reinforcing Bars, 2,300 linear feet of Concrete Piling and other items.
5. Constructing a Reinforced Concrete Slab Bridge on Primary State Highway No. 1 in Clark County, COUNTY ROAD UNDERCROSSING-STATION 163+44, FAP No. I-001-1(38), involving about 516 cubic yards of Concrete, 115,000 pounds of Steel Reinforcing Bars, 345 linear feet of Standard Bridge Railing and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
6. Surfacing and Constructing a Bituminous Surface Treatment on 9.725 miles of a Garfield County Road, GOULD CITY AND MAYVIEW ROAD, ET AL, FAS Nos. S-1137(3), S-0561(5) and S-1138(1), involving about 20,590 tons of Crushed Surfacing and Crushed Cover Stone, 243 tons of Asphalt Cement, 960 cubic yards of Crushed Cover Stone and other items.
7. Draining, Grading and Surfacing on 0.852 mile of a Benton County Road, OLD INLAND EMPIRE HIGHWAY, FAS No. S-0400(1), involving about 14,455 cubic of Unclassified Excavation, 4,950 yards of Solid Rock Excavation, cubic yards of Selected Roadway row, 1,655 cubic yards of Crushed facing, 267 linear feet of Concrete 18 linear feet of Metal Pipe, 820 feet of Beam Guard Rail and other
8. Constructing a New District No. 6 quarters Office Building in Sp County, NEW MAIN OFFICE BUIL IN SPOKANE, a State Project, inv a base bid for the Entire Improve
9. Constructing a Prefabricated Meta hicle Storage Building in King C DISTRICT NO. 1 HEADQUAR STORAGE BUILDING, a State Pr involving a base bid for the Entire provement.
10. Constructing a Prefabricated Metal tenance Station Garage, Oil and Storage Building and Chain Link in Snohomish County, ARLING MAINTENANCE BUILDINGS, a Project, involving a base bid for the tire Improvement.
11. Reconstructing Pier Protection for Washington Toll Bridge Authority Cowlitz County, COLUMBIA R BRIDGE AT LONGVIEW, a State ect, involving about 97 MBM of Ti and Lumber, 33,700 linear feet of Tre Timber Piling, 3,550 linear feet of treated Boom Logs, 20,000 linear fee Galvanized Cable and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highw

6026—1-18, 25

GRADING, BRIDGE
BIDS CLOSE 10 A. M., JANUARY 2
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BURE OF PUBLIC ROADS, December 30, SEALED BIDS will be received at the o of the Bureau of Public Roads, 757 Mo Building, Portland, Oregon, mail ad P. O. Box 3900, Portland, Oregon, until a. m. on January 21, 1958, for furnishing material and performing the work for structing 4.031 miles grading and a 200 reinforced concrete girder bridge, Wash ton Forest Development Road Project Ol pic 245-A, Lake Cushman Road, Olym National Forest, Mason County, Washing involving 37 acres Clearing and Grubb 271,000 cu. yds. Excavation; 946,000 sta. Overhaul; 70,000 yd. miles Overhaul; 30 yds. Concrete; 2,100 lin. ft. Culvert Pipe, other small items of work. Plans, spec cations and proposals may be obtained the office of the Bureau of Public Ro 757 Morgan Building, Portland, Oreg B. M. FRENCH, Regional Engineer.

6012—1-4

CONCRETE LINING IN LATERALS
BIDS CLOSE 10 A.M., P.S.T., JANUARY
Ephrata, Washington
NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF T INTERIOR, Bureau of Reclamation, Jan 1958. Sealed bids, in single, (Specificati No. 117C-492) will be received at the off of the Project Manager, Bureau of Rec mation, Project Office Building, Divis Avenue and C Street NW., Ephrata, Was ington, until 10:00 a.m., Pacific Standa Time, January 30, 1958, and then publi opened for furnishing labor and materi and performing all work for construction Concrete Lining in Laterals W44A, W4 and W44C13, Block 77. This work will clude earthwork for and construction of a proximately 3 miles of concrete lining in e isting laterals, including concrete cut walls, and concrete transitions; 1220 cu. y excavation; 50 cu. yds. backfill, part com pacted; 1,100 cu. yds. refill above concre lining; 5,600 cu. yds. gravel bedding und concrete lining; 35 cu. yds. coarse gravel; 9 mile cu. yds. overhaul; 1,385 cu. yds. co crete; 2,080 barrels cement; and 730 pound reinforcement bars. Time allowed for com pletion will be 45 and 75 calendar days. F particulars address the Bureau of Reclama tion, P. R. Nalder, P. O. Box 368, Ephrat Washington.

6020—1-11

Pacific Architect and Builder

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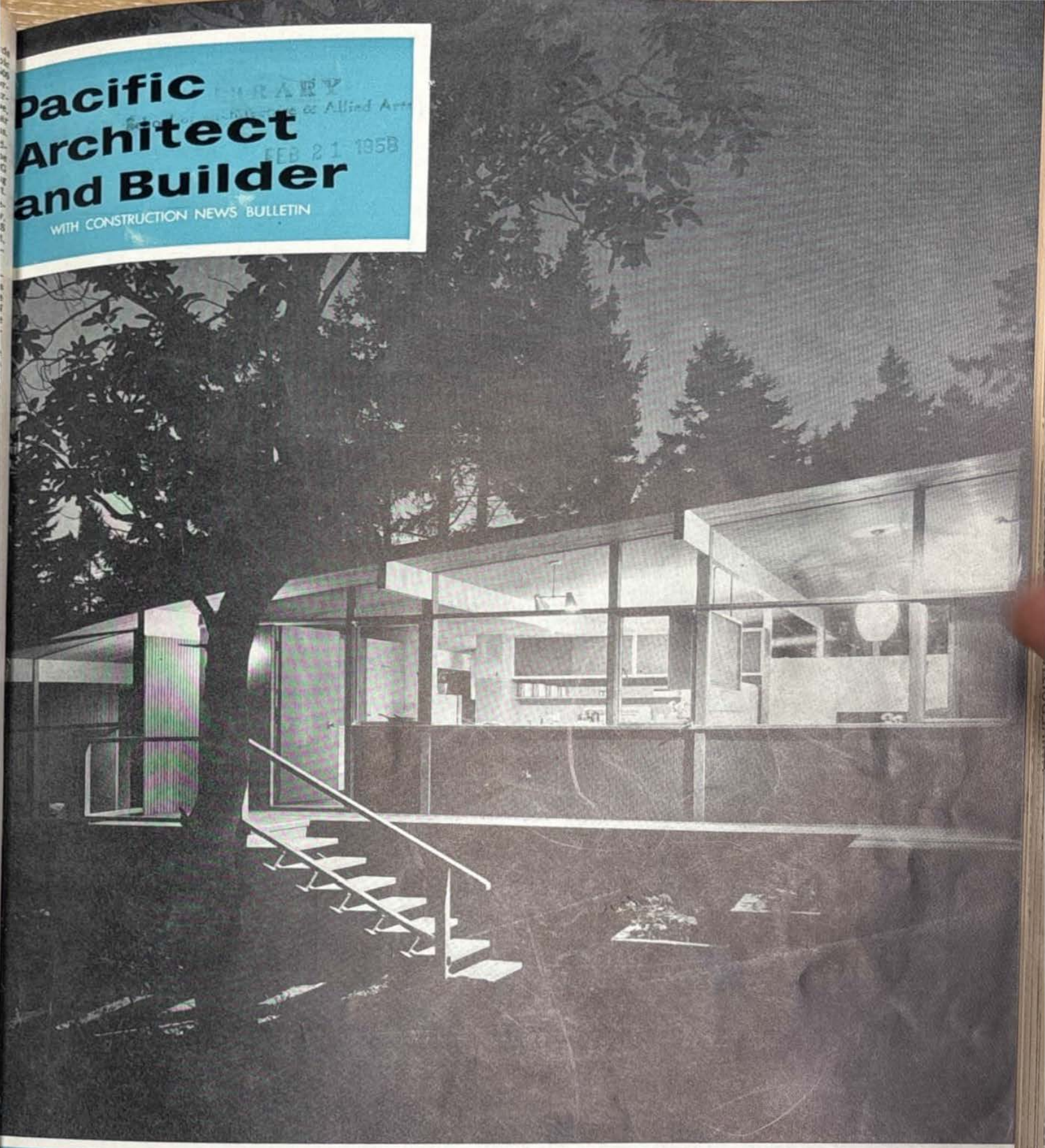


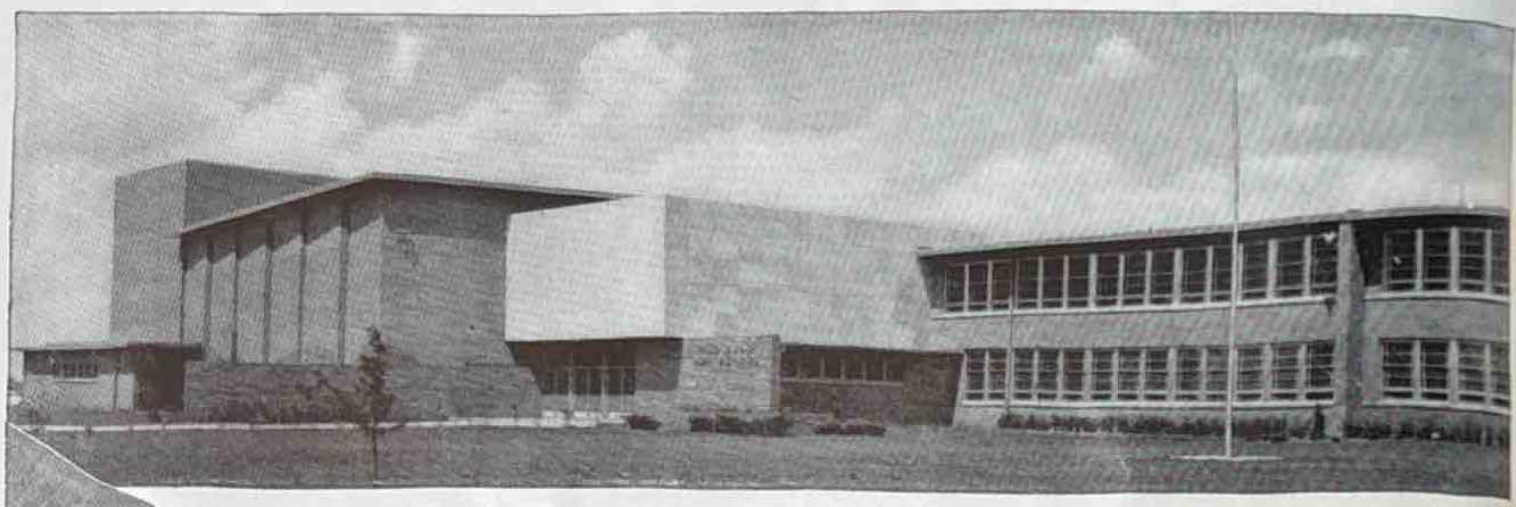
Northwest: young family living

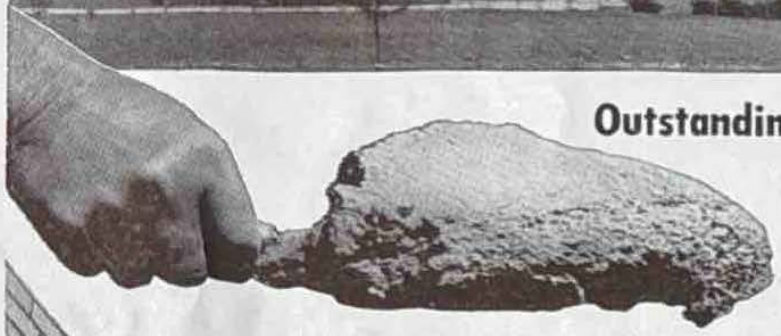
California: church campus for children

Building methods: new roof systems cuts costs

FEBRUARY 1958

Educated Choice!





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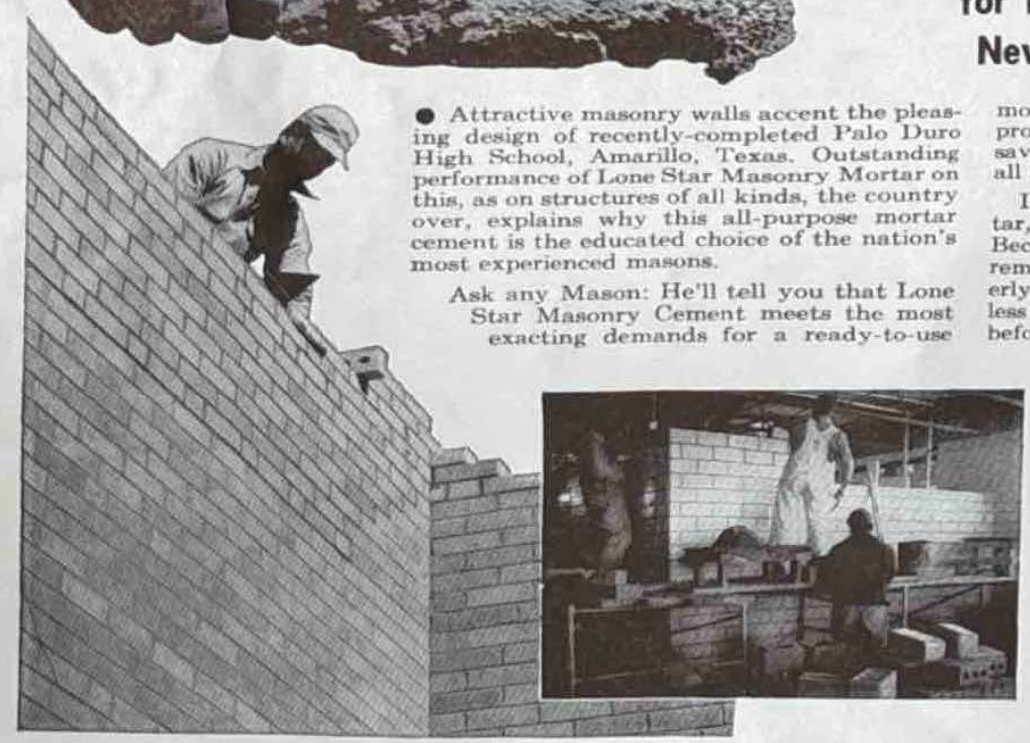

PALO DURO HIGH SCHOOL, Amarillo, Texas

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General Contractor: CLAUDE E. MATHIS

Masonry Contractor: HOWARD BENNETT

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Pacific Architect and Builder

VOLUME 64, NUMBER 2 FEBRUARY 1958

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THE COVER

Walter D. Widmeyer Residence, Tacoma (p. 15). Walter D. Widmeyer, Architect; Art Hupy photo.

THE BUILDING MONTH: HIGHLIGHTS/TRENDS

Seattle's World Fair Corp., a nonprofit organization working on preliminary plans for the proposed 1961 show, has outlined a basic program for financing the international exposition. Part of the money needed to construct the buildings would be raised through the sale of nonprofit bonds, public subscriptions, foundation aid and federal government support; but the big share of the cost would come from exhibitors and concessionaires, as was the case at New York and San Francisco and now at the Brussels exposition. The fair and Seattle's Civic Center program, for which the city has already passed a $7½ million bond issue, are separate projects, but the former would help boost the latter, particularly since the fair buildings would be designed for future use.

Ordinance concerning seismic designs has been okayed by the Los Angeles City Council. The ordinance, based on a report by members of the Structural Engineers Association of Southern California, represents minimum design requirements necessary to prevent major structural damage, but superficial damage may be expected in the event of a moderate earthquake.

March 1 is deadline for entries in the 1958 building products literature competition, sponsored annually by the AIA and the Producers' Council, Inc. Joint committee of both groups met in Oberlin, Ohio, last month for its 49th meeting, with San Francisco architect William Corlett representing the West Coast.

Structural steel is now readily available and can be delivered promptly in 1958. This situation, says the American Institute of Steel Construction, stems from two factors: a 29% increase in shipments of plain material to structural steel fabricating plants and sizeable expansion in capacity of manufacturing facilities.

Portland will save between $150,000 and $250,000 in construction of its Exposition-Recreation Center (PA&B for January 1958) through a program in which several manufacturers of forest products will provide materials at cost or, in some cases, without cost.

National Labor Relations Board has adopted a major policy change which gives relief to employers caught in the middle of union jurisdictional disputes. A Long Island attorney, appearing before the board as a "friend of the court" in a case involving two Cleveland construction trades unions, declared that NLRB's long-established interpretation of the Taft-Hartley regulations should not apply when private mediation agencies fail to settle a jurisdictional dispute and a work stoppage occurs.

Shopping center industry will have its first trade show at the Hotel Statler in New York, opening February 24 as part of a three-day convention of the International Council of Shopping Centers.

Largest single loan—$18 million—ever made under HHFA's college housing program has been obtained by the University of California to help finance construction of 37 new buildings and additions to three structures on campuses throughout the state. Total project, costing $31.5 million, of which the university will put up $13.5 million, will provide housing for 6,054 single students and 151 married students in reinforced concrete buildings.

Four classes in architecture are being sponsored by the San Francisco Architectural Club, with all sessions held at the club headquarters, 507 Howard St. Classes include structural engineering for architectural students; the business side of operating an architect's office; a review course for those planning on taking the California state architectural examination; and beginning and advanced studies of architectural design.

Use of wood in school construction got a plug when school officials, architects and civic leaders attended a forum in Tacoma February 12 sponsored by the Tacoma Lumbermen's Club. Speakers included Robert B. Price, Tacoma architect; Lloyd J. Andrews, state superintendent of public instruction; and James Hopkins, assistant superintendent of Tacoma schools.

First technical seminar on curtain wall construction aimed at helping architectural understanding of this building technique will be held in New York March 5, under the chairmanship of Robert A. Weaver Jr., president of Bettinger Corp., Waltham, Mass.

New method to determine amount of light needed for specific working tasks will be discussed at a two-day symposium sponsored by the Illuminating Engineering Research Institute in Dearborn, Mich., March 3-4. Then lighting engineers, architects and others will critically examine the standards at a three-day course beginning March 19 at the University of Michigan, Ann Arbor. Special faculty members will include architect Henry L. Wright of Los Angeles.

Metropolitan plan for the Seattle area, which will appear on the March 11 ballot, is being watched with interest across the country. The plan would establish a cooperative agency to handle mutual problems of sewage disposal, rapid transportation and planning for Seattle and suburban areas.

International Drywall Contractors Association, holding its first convention in Chicago January 16-17, reelected the original slate of officers, headed by Wayne Vaughan of Los Angeles.

New AGC national vice president is James W. Cawdrey, partner in the Seattle building construction firm of Cawdrey & Vemo and chairman of the Building Division in 1955. Fred W. Heldenfels Jr., Texas highway contractor is 1958 president, installed during the 39th annual convention which met in Dallas earlier this month.

World's biggest landlord, Public Housing Administration, will be the subject of a showdown when its program comes up in Congress this year for renewal and reevaluation. The Administration does not plan to ask for any new public housing authorization, while some Democrats charge that footdragging has virtually stymied the program.

Western Retail Lumbermen's Association will hear a panel discuss "The Revolution in Distribution—What It Means to You," when it holds its 55th annual convention and building materials exhibit at the Olympic Hotel, Seattle, February 25-27.

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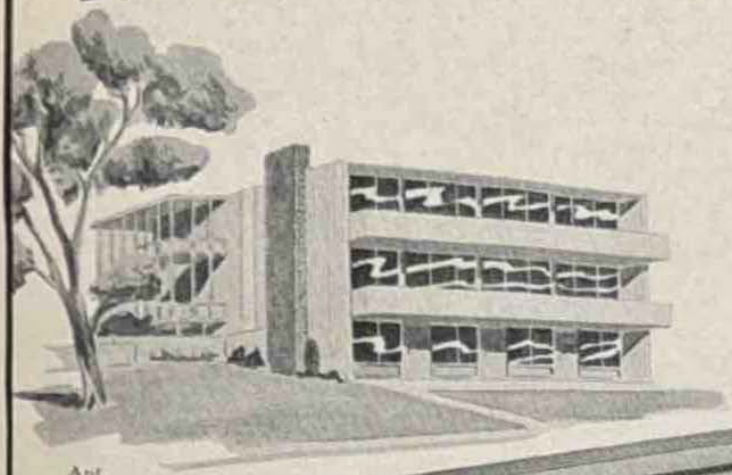

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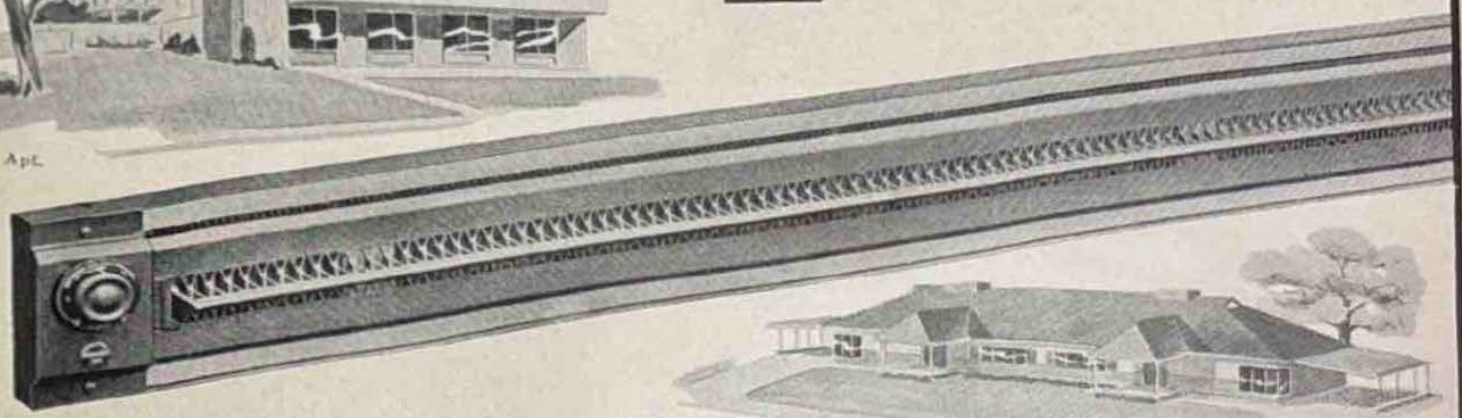

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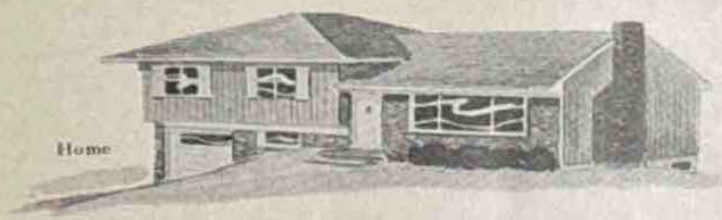

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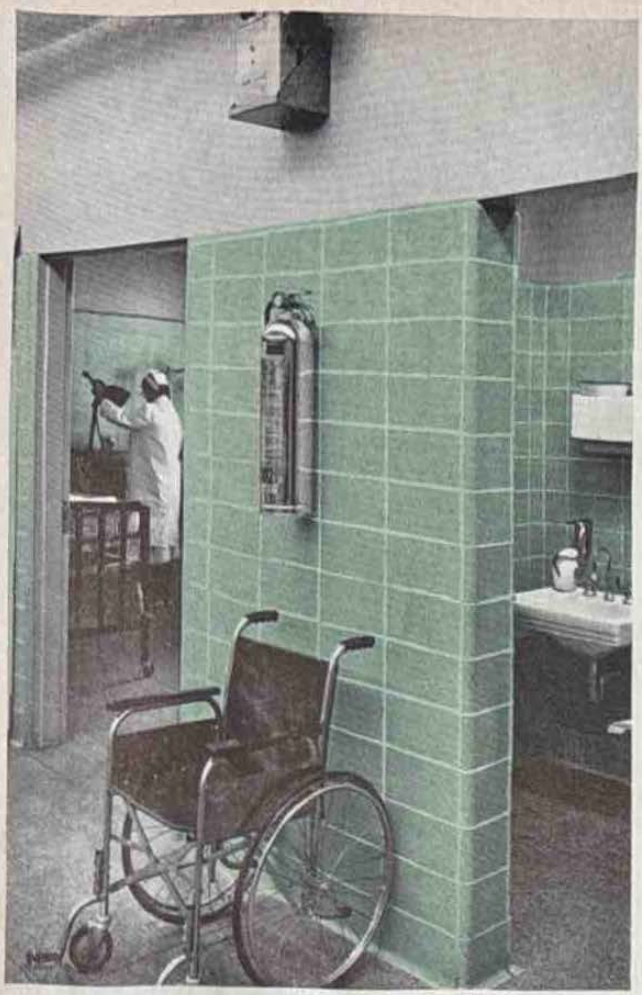

Ford Motor Company, Milpitas, California
Architect: Albert Kahn, Associated Architects & Engineers
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about a grain of sand

February is always a very special month for all of us at Pacific Architect and Builder. It was three years ago that we extended our editorial coverage to include California and just one year ago that we appointed A. O. (Al) Bumgardner, AIA, as architectural advisor, heading up an informal advisory board which reviews design projects submitted for publication. We sincerely believe that we have made considerable progress, particularly in this past year, but we would like to hear from our readers to learn how we can better serve our function as the "Magazine of West Coast Architecture." In this regard we want to say a few words about our name in answer to those who seem to think that "architect and builder" are editorially incompatible.

Consider a grain of sand applied in a neatly textured swirl of acoustical plaster on the ceiling of our ideal building. The grain of sand is there because the architect studied his client's needs, counseled and advised him on the necessity for that type of material for several reasons—climate, cost, usage of room. It will stay there and perform the desired purpose because the builder properly interpreted and appreciated the architect's ideas. He prepared the proper mix, not only because the specifications were properly written, but because he wanted to do the job correctly. He applied the mix properly, on a properly cured brown coat, because he recognized the architect's aims. (He could have rushed the stuff on, fought for his money and gotten away from the job before the cracks appeared.) He was able to achieve the desired effects because other contractors, working with machinery manufacturers, had developed a rig that would blow that grain of sand into just the right place on the ceiling. As a result the builder was able to give the architect just what he wanted at a price the client was able to pay.

What is true of that ridiculously little grain of sand is just as surely true of each fiber of wood, every molecule of metal in that structure. Where could you find two men with a stronger need for a close bond of common interests, understanding and spirit of cooperation? It took two of them—architect and builder—working together to put that grain of sand in place. If there is not this bond between architect and builder, then it is the individual's fault, not that of the profession or the industry.

the second 50 years

A man who didn't particularly want to celebrate completion of 50 years in business, but who prefers to announce the start of his "second 50 years," is William Anderson, chairman of the board of Eagle Metals Co. Anderson founded the non-ferrous metals distributorship in Seattle in 1907, seven years after coming to this country from his native Scotland and guided it to a position of leadership in the Northwest. With branches in Portland and Spokane, the firm now handles stainless steel and Monel steel in addition to mill lines of copper, brass, bronze, aluminum and nickel alloys. Anderson also became interested in construction publishing some 40 years ago and has served as a director and officer in Pacific Builder & Engineer, Inc., publisher of PA&B. He is vice president of the firm today.

R.E.K.

NAHB elects Californian as president

• Builders voice optimism at Chicago sessions

Nels G. Severin of San Diego was elected president of the National Association of Home Builders at its 14th annual convention-exposition in Chicago January 19-23, during which both delegates and speakers expressed a note of confidence.

Severin, who succeeds George S. Goodyear of Charlotte, N.C., served as first vice president and chairman of the legislative committee in 1957. He is a banker as well as a builder who constructs about 200 houses a year.

Other officers for 1958 are Carl T. Mitnick, Merchantsville, N.J., first vice president; Martin Bartling, Knoxville, Tenn., second vice president; Edward W. (Ted) Pratt, Royal Oak, Mich., treasurer; and E. J. (Jim) Burke, San Antonio, Texas, secretary.

Among the 21 regional vice presidents are four from the West: A. W. Brunt, Idaho Falls, Idaho; Lloyd Hammerstad, Yakima, Wash.; George M. Pardee Jr., Los Angeles; and William Blackfield, San Francisco (reelected).

1.1 million housing starts

As to home building itself, predictions were freely heard that there would be both money and markets for 1.1 million new homes or an increase of about 10% over last year. A preliminary total of 1,039,200 starts was recorded in 1957, of which 989,700 were private.

In other official business, the charter of the Building Contractors Association of California was revoked by the board of directors on the grounds that the organization no longer was representative of the home building industry in its area.

The board approved a vigorous policy statement drafted by the resolutions committee under the chairmanship of past president Earl Smith of El Cerrito, Calif. The statement underscores the fact that "home building cannot of itself cure an ailing economy just as today's economy cannot thrive without a healthy home building industry" and lists these six principles as essential to a resurgence of housing:

1. The home building industry is a basic foundation stone of our economy and our democratic society; it must not be treated as a mere economic safety valve.

2. Home building must have a fair share of private investment funds.

3. The home building industry is handicapped by a patchwork mortgage finance system which must be effectively modernized. A true central mortgage bank is essential.

4. The cost of buying a home is being dangerously increased by 1) heedless and unrealistic building requirements imposed at all levels of government and 2) a scarcity of suitable building sites caused by the inability of municipalities to provide necessary community facilities.

5. A continuous and uninterrupted urban renewal and slum clearance program must be developed.

6. Manufacturers, labor and builders should unite to keep increases in home costs to the barest minimum.

The builders divided their time between 789 exhibits and the program itself which brought 315 speakers to rostrums and panel platforms. There was general agreement that for the first six months of 1958 recessionary pressures on the economy would be forcible. Beyond that, some felt there would be a pickup; others were not so sure.

Cole is optimistic

U. S. Housing Administrator Albert M. Cole, unable to attend the sessions because of illness, in a paper he had prepared predicted that 1958 should be about 10% better for home builders than 1957. "There is reason to believe we have turned a corner," he declared. "Housing production has been rising. Construction costs seem to be stabilizing. There has been no increase in the vacancy rate. Signs point to an easing of the money market as the weeks pass by."

FHA Commissioner Norman P. Mason gave new impetus to the drive for elimination of discount controls, telling the convention: "We hope that the Congress will accept President Eisenhower's request to do away with discount controls. This is a form of price control and as such it is abhorrent to the American public and businessmen."

Shopping center makes bid as West's largest

Construction has started at Hayward, Calif., on the $28 million Palma Ceia Shopping Plaza, ranked by the Urban Land Institute as the largest regional shopping center on the West Coast and sixth in store area in the U. S. First unit to get underway is the $3 million Sears, Roebuck & Co. building, also in the "largest in the West" category, as far as Sears is concerned.

When finished in 1959 the center will contain 107 different business activities, including two department stores and a heliport, as well as paved parking for 48,000 cars in 8,000 separate stalls. The entire operation will employ 3,500 persons with a yearly payroll of $10 million.

Branden Enterprises is the developer; David T. Johnson of Oakland is the architect except for the Sears building, being designed by the Oakland architectural firm of Reynolds & Chamberlain. Hilp & Rhodes of San Francisco are the general contractors.

DESIGN FEATURE of West's largest shopping center will be 1,000-ft. long mall, forming interior court for many shops. Store fronts facing onto mall will be constructed in off-set plan to avoid "squared-off" appearance so common in shopping districts.

Courtesy of California Historical Society

MINT BUILDING constructed in 1874 is subject of controversy in San Francisco.

Fight to save Mint Building gains steam

San Francisco architects are up in arms over a proposal to demolish the historic old Mint Building at Fifth and Mission streets made by Mayor George Christopher and other city officials.

William Wurster, dean of the University of California College of Architecture, declared wrathfully: "We have too few mementos of the past remaining and we should preserve one of the very fine old buildings we have in San Francisco."

Earl H. Reed of Chicago, chairman of the AIA committee on the preservation of historic buildings, got into the affair with a telegram to the mayor in which he said, "We respectfully request your aid in averting destruction of a noble monument. Its loss would be a severe blow to San Francisco and the nation."

And William Corlett, president of the Northern California Chapter, AIA, added, "The building is one of those that several years ago the chapter included in a list of 10 buildings that we feel should be preserved. Our executive committee has just reaffirmed that position."

The building is considered to be the masterpiece of Abram B. Mullet who from 1865 to 1875 was official architect for the federal government. He designed it in a federal Greek revival.

The structure, built in 1874, survived the 1906 earthquake and fire, but since 1935 there has been pressure to tear the building down and return the site to private owernship.

Court decision regarding school favors Portland architects

Decision of an arbitration board favoring the architectural firm of Stewart & Richardson, Portland, in a controversy concerning Hudson's Bay High School, Vancouver, Wash., has been confirmed by Superior Court Judge Eugene Cushing.

The defendant, Vancouver School District No. 37, had claimed $42,360.34 from the architects for alleged sound defects, heat gain in classrooms and miscellaneous items; the architects had claimed $14,661.02 for unpaid fees plus accumulated interest over periods from one and one-half to four years.

The arbitration board, made up of attorney Lamar Tooze, Walter E. Church and contractor E. F. Balgeman, all of Portland, awarded Stewart & Richardson $17,251.14 unpaid fees and interest. It awarded the school district $2,446.93 for correcting a sound condition in music practice rooms and for two change orders.

Judge Cushing ruled as follows: "It was contended by the defendant that there was an implied warranty on the part of the architects that the work which they undertook would be of proper workmanship and reasonable fitness for its intended use, and that architects furnishing specifications and plans for a contractor to follow in a construction job thereby impliedly warrant their sufficiency for the purpose in view. This position is supported by some authorities.

"On the other hand, the majority of authorities in the United States hold that an architect does not insure or warrant the success, satisfaction or results of his work. His responsibility is that he has the special skills possessed by architects generally and that, in doing his work, he will exercise those skills reasonably and prudently and in accordance with the general standard of skill exercised by architects generally.

"Decisions in other jurisdictions also hold: 'The law does not imply such a warranty for the guarantee for perfection of his plans. The result may show a mistake or defect in them, although he may have exercised the reasonable skill required. The law requires only the exercise of ordinary skill and care in the light of present knowledge.' It has also been held that 'disputed questions of fact are settled by the findings which are tantamount to a verdict.'"

CORRECTION

PA&B regrets that the names of the general contractors, Williams & Burrows, Inc., and Carl N. Swenson Co., Inc., for the Music Classroom Building, Santa Barbara College, were incorrectly identified in the January issue.

Need for density control in San Francisco cited

Millions of dollars in federal aid needed to redevelop San Francisco's old Product Market area will be withheld unless some form of density control is adopted, M. Justin Herman, HHFA regional administrator, has told that city's Board of Supervisors, which recently rejected a proposed limit on the height of new buildings.

The height-limit formula rejected by the supervisors is the only density control over commercial buildings in the pending new zoning ordinance. It would have prohibited solid, towering blocks of buildings.

Herman said that federal officials regard density control as good planning. Such control, however, could be imposed inside the project boundaries by making it a part of the project plan.

The supervisors, however, would have to change the zoning ordinance to impose density controls outside the project boundaries.

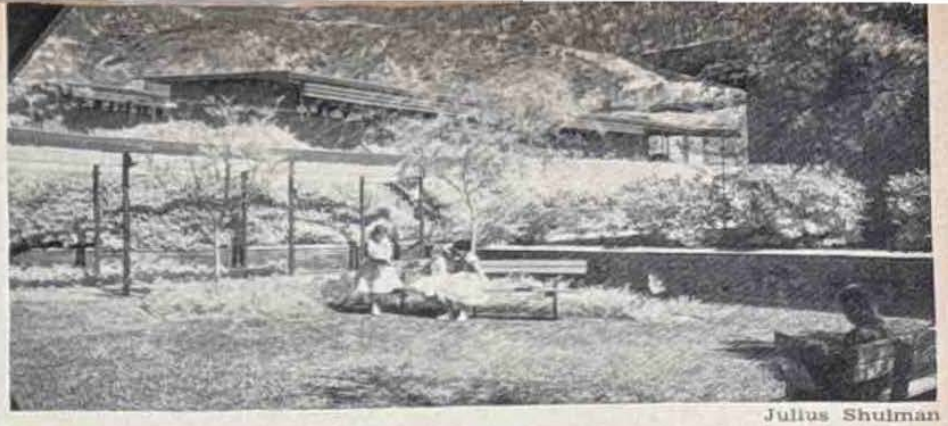
Death takes Record's Shear at age of 40

One of the nation's leaders in the architectural profession, John Knox Shear, 40, editor in chief of Architectural Record, died January 10 in the East. Before assuming that post in 1954, he had served as head of the department of architecture at Carnegie Institute of Technology in Pittsburgh, where he also was actively engaged in practice.

A member of the AIA, Shear participated in the Northwest regional conference at Gearhart, Ore., last October.

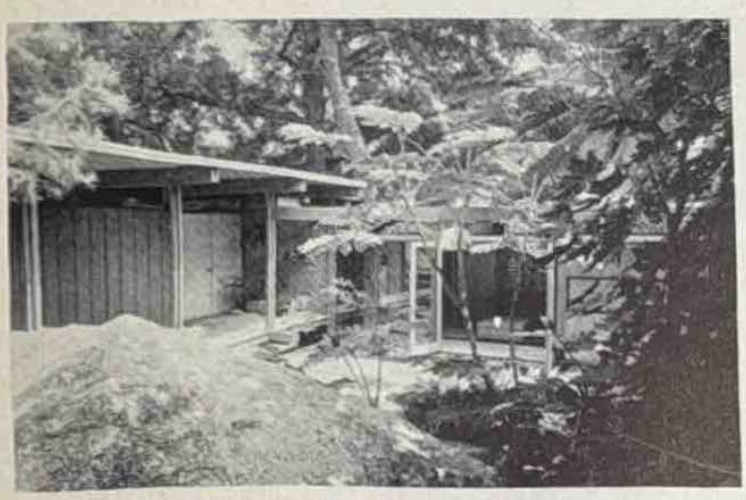
Pasadena AIA gives five honor awards

In its Centennial Honor Awards program the Pasadena Chapter, AIA, cited the five projects shown here for top honors and nine others for merit awards (December 1957 PA&B). Jurors were architects Ulysses Floyd Rible, Henry Eggers, A. Quincy Jones; landscape architect Garrett Eckbo; industrial designer Henry Dreyfuss; sculptor Bernard Rosenthal.



Julius Shulman

ARTHUR AMOS NOYES ELEMENTARY SCHOOL, Pasadena: Boyd Georgi and Lee B. Kline, associated architects; Hight Construction Co.-Stephen F. Owers, contractors. "Exceptionally well-executed site development on an extremely difficult site."



RESIDENCE FOR RICHARD LEITCH, Altadena: Richard Leitch, architect and contractor. "Total integration of garden and house. A most successful blending of landscape and architectural structure."

MOUNTAIN HOUSE FOR J. HOWARD MARSHALL, Lake Arrowhead: Burge-Roach, Henry Charles Burge, architect; Burke Malcolm, contractor. "A distinguished design possessing warmth and friendliness."

Julius Shulman

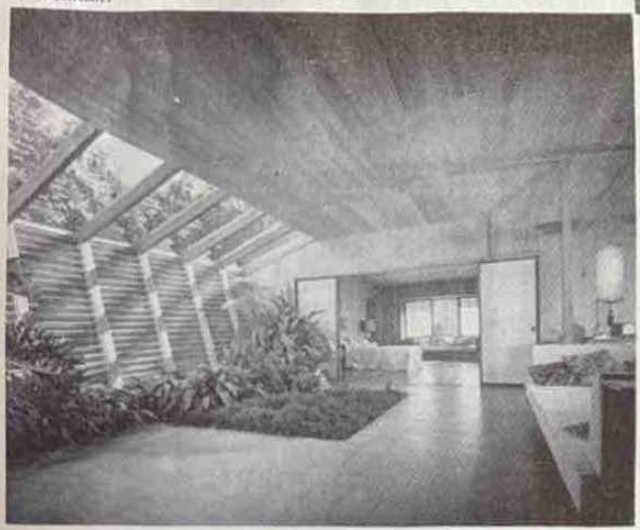
MOBIL SERVICE CENTER, Santa Ana: Smith & Williams, architects; Roulac Co., contractor. "A light, total structure making maximum use of the site, well-integrated industrial design of the components."

METHODIST HOSPITAL OF SOUTHERN CALIFORNIA, Arcadia: Neptune & Thomas, architects; Twaits-Wittenberg Co., contractor. "A simple composition of extremely complex facilities, especially noted for a pleasing and total landscape development."

Design competition staged in Hawaii

ORCHARD HILLS TRACT HOUSE, Aiea Heights: Wood, Weed & Kubala, Ltd., architects.

R. Wenkam



RESIDENCE FOR ALICE C. GUTHRIE, Honolulu: Richard N. Dennis, architect.

Architects for six Honolulu area buildings and the first foreign architect to be honored for his work in the Pacific area were awarded citations by the Hawaii Chapter, AIA, at a dinner meeting in the Reef Hotel January 24. In addition to the honor award projects shown here, honorable mentions went to Philip C. Fisk for his own residence at Kaneohe; Alfred Preis for the Gustav Ecke residence in Honolulu; and Wood, Weed & Associates for the Board of Water Supply pumping station at Kuliouou. Gordon Bradley headed the awards committee, while the jury, made up of past honor award winners, included Harry Seckel as chairman, Vladmir Ossipoff, Allen Johnson, William Merrill and Cy Lemmon.

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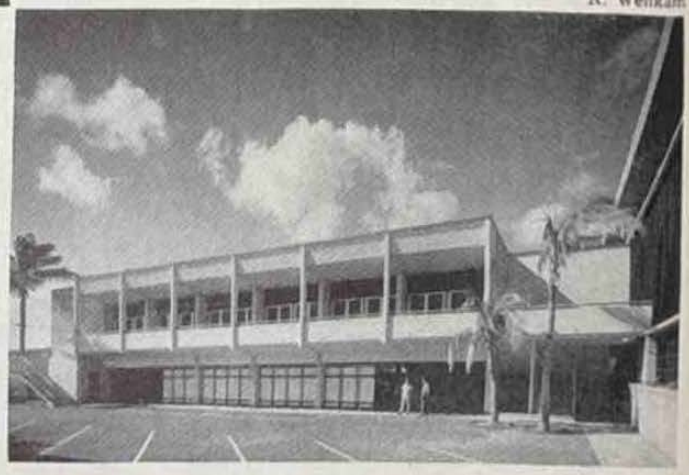
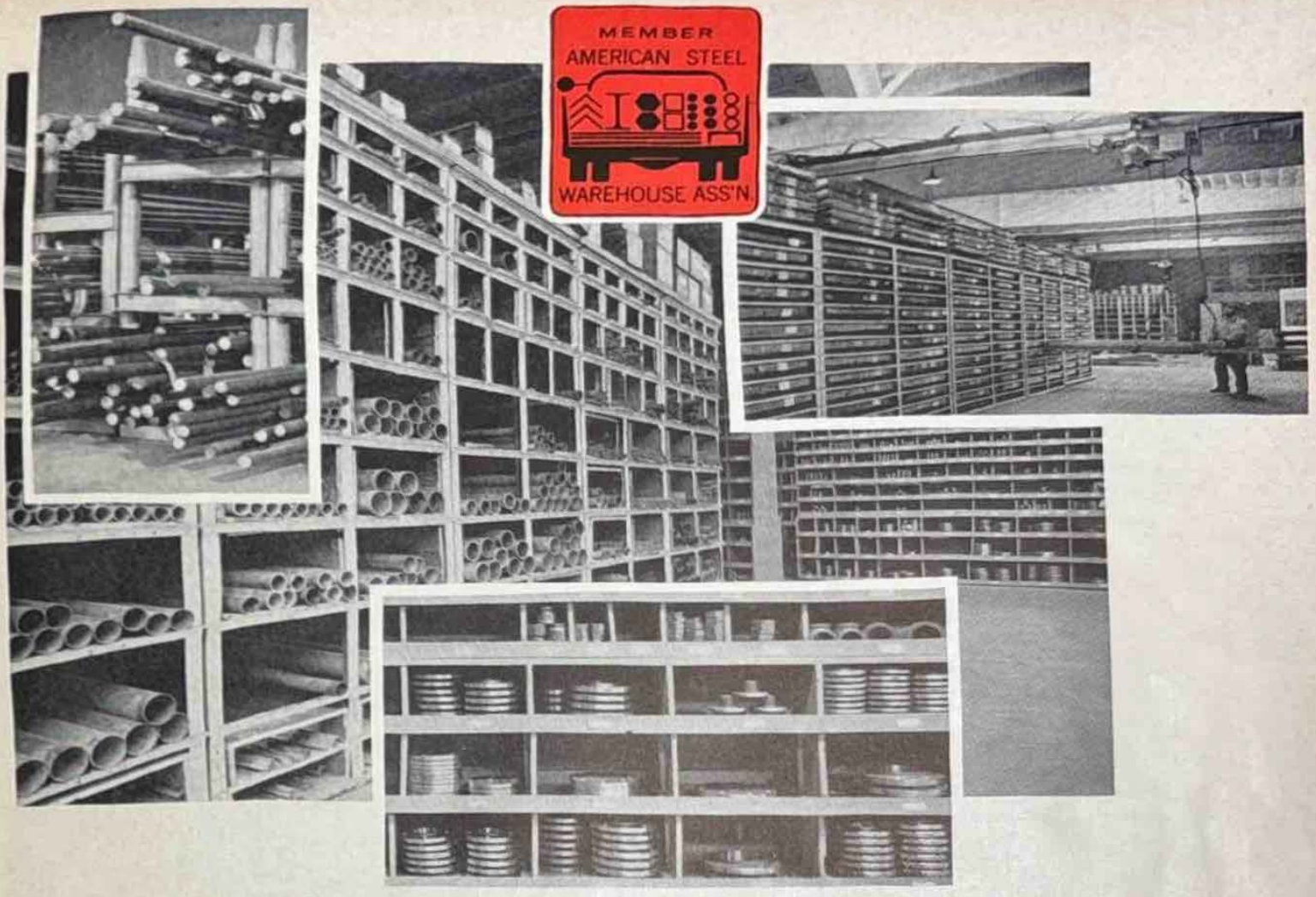
R. Wenkam



UNION HALL ADDITION, ILWU BUILDING, Honolulu: Alfred Preis, architect.



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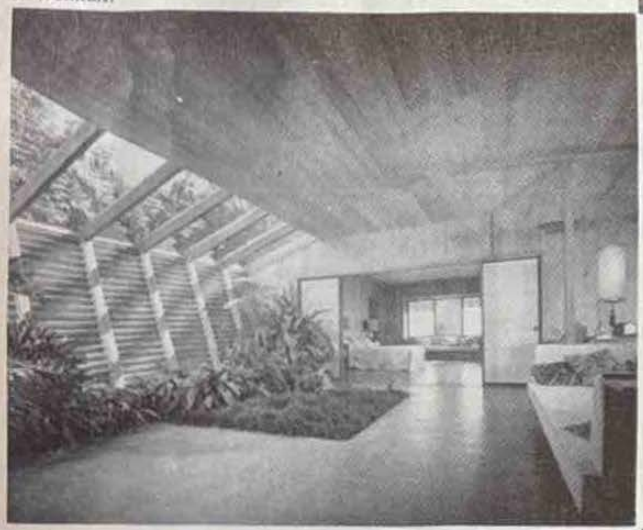
DENVER, COLORADO	3940 Grape Street, FLorida 5-2349
HONOLULU, T. H.	630 South Queen Street, 6-6186

Design competition staged in Hawaii

ORCHARD HILLS TRACT HOUSE, Aiea Heights: Wood, Weed & Kubala, Ltd., architects.

R. Wenkam



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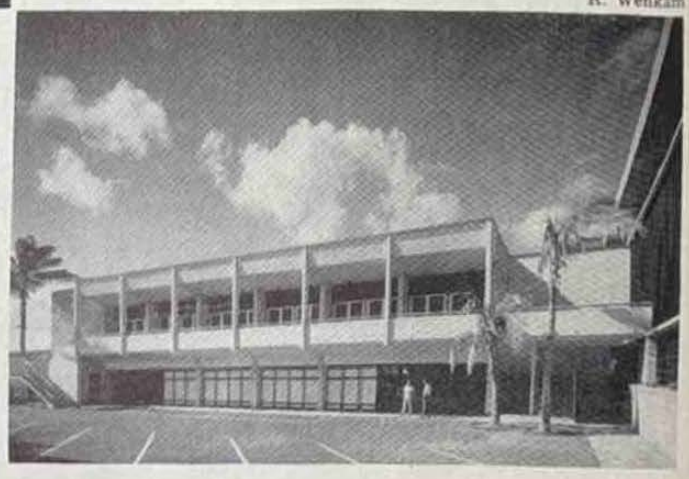

UNION HALL ADDITION, ILWU BUILDING, Honolulu: Alfred Preis, architect.

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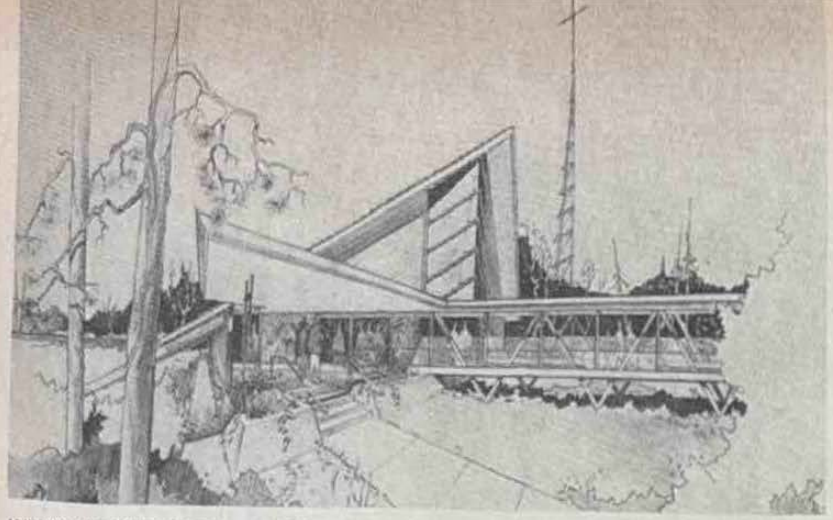
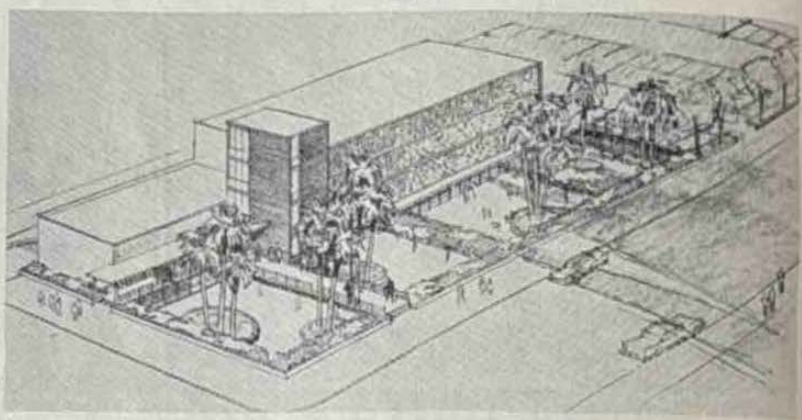
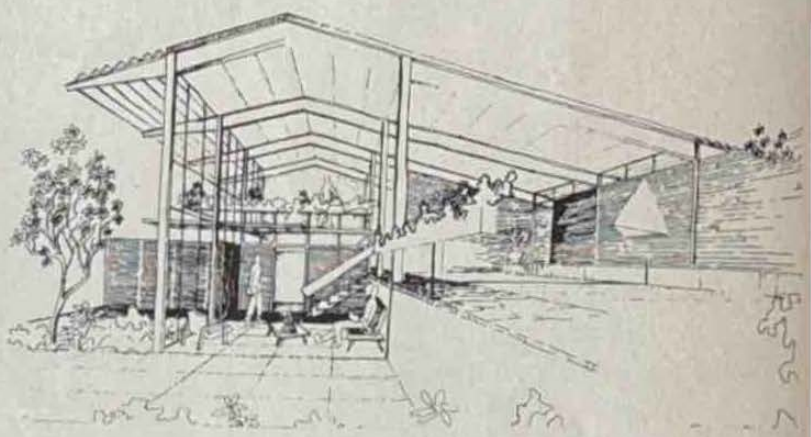


INTERDENOMINATIONAL CHAPEL proposed for Montana State Tuberculosis Sanitarium at Galen will be attached to main building by glassed hallway, but designed to break away from same rigid architecture. Plans call for walls of natural wood finishes inside and out, roof of cedar shingles. Estimated to cost $42,500 completely furnished, chapel will have 90 seats and room for wheel chair patients. Architects: O. Berg Jr. & Associates.

CITY HALL for Modesto, Calif., will be constructed on site of burned out hotel, its excavated foundation hole providing for garden forecourt at lower level and naturally lighted ground floor. Solar screen will be used on long east and west facades, reducing air conditioning load about 20%. Reinforced concrete, flat slab structure will have 38,000 sq. ft. of total area. Architect: Milton T. Pflueger.



PROJECT PREVIEW



EXTENSIVE EXPANSION of Oakland's Hotel Claremont costing almost $2 million will feature eight-story building with 85 hotel apartments. Old and new facilities will be joined by structure housing coffee shop. Below present hotel will be new outdoor dining terrace, skating rink, private club with swimming pool and building for association offices, among them Eastbay Chapter, AIA. Architect: Angus McSweeney.

FOUR DORMITORY BUILDINGS for Reed College in Portland will be identical split-level structures adapted to wooded site across lake from Eliot Hall. Each unit in $400,000 project will accommodate 25 men. Sketch shows main entry lounge and study at left, upper level, which opens onto glass walled lounge. Cantilevered wood deck is 6 ft. wide, with redwood louvers. Architects: Farnham, Shell & Hoyt.

January building volume up $22 million

PERMITS

Building permit volume for January in the five western states climbed to $183,685,720, a jump of $22½ million over the December total. California picked up the biggest gain, $17¼ million. Washington was up $4 million; Oregon, $¾ million; and Montana, $¼ million. Idaho dropped $¼ million.

Compared to a year ago the 116 key building permit agencies surveyed by PA&B reported a $4 million increase. Dollar volume in California topped last January by $7¼ million; in Washington by $1½ million. Oregon dropped $4¼ million; Idaho, $½ million. Montana's total was down a bare $90,000.

Among the major building permit agencies, Los Angeles started the new year with a $9 million increase over January 1957 and Torrance was up $5 million, while Los Angeles County dropped $7½ million and San Diego was down $3½ million. In the Bay area, San Mateo County was up $3 million; Sunnyvale, $2¼ million; San Francisco, $1 million; and San Jose $1¼ million. Oakland dropped $2 million. Seattle, with a $1¼ million increase, was the only major agency in the Pacific Northwest to show a substantial rise over last year.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during December. (Number of permits is followed by total dollar volume.)

ANALYSIS OF TYPICAL AREAS—JANUARY

	Dwelling		Commercial & Industrial		Public	
Portland	47	$ 894,375	13	$ 244,400	1	$1,980,380
King Co.	316	3,738,680	49	470,585	4	1,995,500
Seattle	320	3,480,304	178	2,493,937	1	70,000
Tacoma	83	391,413	32	511,380	1	664,000
Los Angeles Co.	1750	14,373,463	310	2,678,234	30	1,289,719
Orange Co.	186	2,431,650	28	66,410	1	65,000
Sacramento Co.	316	2,557,009	59	434,636	5	105,986

Building Permit Totals for 116 Western Agencies for January

CALIFORNIA	Jan. 1958	Dec. 1957	Jan. 1957
Alameda County	$ 906,600	$ 798,175	$ 1,480,500
Anaheim	3,216,840	2,333,921	1,327,050
Bakersfield	742,268	496,620	879,305
Burbank	726,086	995,873	719,642
Contra Costa County	2,064,757	1,923,102	1,785,681
Fresno	1,637,566	1,345,552	990,212
Fullerton	502,111	713,763	639,028
Glendale	1,564,058	1,721,778	1,521,371
Inglewood	1,050,994	947,900	1,568,123
Long Beach	3,730,690	4,095,210	4,422,110
Los Angeles	46,264,686	30,912,698	37,150,330
Los Angeles County	18,928,557	14,114,458	26,542,576
Oakland	2,469,118	2,912,525	4,422,327
Ontario	1,341,958	351,867	
Orange County	2,816,808	2,964,040	4,418,937
Palo Alto	892,236	21,122,982	1,550,326
Pasadena	924,916	1,024,355	1,105,673
Pomona	769,236	345,783	1,672,237
Richmond	587,593	392,514	360,520
Riverside	888,957	539,491	1,012,059
Sacramento	2,635,303	2,537,050	2,654,825
Sacramento County	3,116,382	3,700,741	3,828,394
San Bernardino	2,917,098	3,580,708	2,706,302
San Bernardino County	4,724,025	3,391,129	5,789,093
San Diego	10,544,881	11,688,098	14,092,635
San Diego County	4,737,200	3,615,900	4,898,200
San Francisco	6,081,392	4,263,752	5,086,441
San Jose	4,995,741	3,008,585	3,729,444
San Mateo	608,220	460,648	821,734
San Mateo County	4,006,704	988,631	884,762
Santa Ana	1,752,189	321,157	799,516
Santa Monica	3,065,638	930,897	1,977,499
Stockton	428,385	1,721,051	753,509
Sunnyvale	4,546,317	4,752,900	2,220,600
Torrance	7,023,419	1,390,924	1,905,796
West Covina	1,751,745	1,248,752	1,983,590
TOTAL	$154,960,674	$137,643,530	$147,700,347

OREGON	Jan. 1958	Dec. 1957	Jan. 1957
Albany	$ 94,900	$ 72,850	$ 144,950
Astoria	3,450	4,300	211,975
Baker	8,513	45,215	700
Bend	59,940	91,950	72,425
Coos Bay	63,917	50,630	72,459
Corvallis	263,750	78,300	66,000
Eugene	78,968	303,990	323,925
Grants Pass	49,895	69,450	148,610
Gresham	67,505	1,200	9,350
Hillsboro	21,200	69,075	66,150
Klamath Falls	29,022	43,730	626,450
LaGrande	250	2,150	17,650
Lane County	372,778	366,548	425,616
Medford	314,575	99,765	2,221,190
Multnomah County	1,162,425	1,129,080	1,272,735
North Bend	31,141	23,918	345,695
Oregon City	28,175	1,970	23,100
Pendleton	45,200	1,295,840	117,500
Portland	4,219,070	2,321,355	4,852,555
Roseburg	52,735	35,965	43,175
Salem	111,920	87,165	196,125
Springfield	15,600	21,420	78,536
The Dalles	18,775	24,665	86,475
TOTAL	$ 7,123,704	$ 6,240,531	$ 11,423,346

WASHINGTON	Jan. 1958	Dec. 1957	Jan. 1957
Aberdeen	$ 31,087	$ 108,325	$ 382,095
Anacortes	129,100	43,616	42,925
Auburn	114,900	141,400	605,026
Bellingham	144,600	243,797	99,051
Bremerton	54,155	47,330	78,080
Centralia	29,345	42,871	71,534
Chehalis	9,031	17,644	5,993
Clarkston	6,432	4,881	15,956
Ellensburg	8,830	79,955	15,182
Ephrata	13,460	53,480	16,075
Everett	129,165	233,275	162,657
Kelso	7,300	2,900	17,500
Kennewick	36,500	35,200	12,000
King County	6,224,465	3,400,010	6,220,464
Kirkland	119,070	5,100	42,500
Longview	314,953	251,510	263,913
Moses Lake	386,476	10,255	19,080
Olympia	380,875	351,010	335,843
Pasco	149,650	37,280	8,625
Pierce County	1,117,268	1,370,327	1,117,783
Port Angeles	2,650	40,525	65,600
Puyallup	113,050	62,800	37,700
Ritzville	Nil	Nil	500,000
Seattle	6,124,296	3,527,306	4,817,520
Shelton	14,783	24,500	22,000
Spokane	545,726	2,757,448	507,353
Spokane County	571,216	551,075	254,795
Sumner	29,020	30,000	16,000
Tacoma	1,803,265	1,179,829	1,571,239
Vancouver	434,660	356,306	327,852
Walla Walla	186,315	26,385	7,550
Wenatchee	100,450	44,810	50,800
Yakima	260,862	337,430	183,060
TOTAL	$ 19,591,955	$ 15,418,580	$ 17,893,751

MONTANA	Jan. 1958	Dec. 1957	Jan. 1957
Billings	$ 180,750	$ 152,450	$ 75,400
Bozeman	Nil	76,000	15,000
Butte	67,547	2,400	518,250
Glasgow	5,400	2,300	7,500
Glendive	6,000	3,800	1,000
Great Falls	497,521	288,018	297,421
Helena	169,378	63,500	50,470
Kalispell	13,600	900	4,100
Lewistown	Nil	28,500	21,000
Livingston	31,900	5,900	1,900
Miles City	20,700	46,625	8,100
Missoula	8,300	18,100	11,300
TOTAL	$ 1,001,096	$ 688,493	$ 1,011,441

IDAHO	Jan. 1958	Dec. 1957	Jan. 1957
Boise	$ 580,777	$ 219,968	$ 236,648
Caldwell	9,485	16,800	43,150
Coeur d'Alene	43,450	69,350	69,050
Idaho Falls	52,625	398,000	36,300
Jerome	5,500	22,300	6,500
Lewiston	68,239	79,110	186,924
Nampa	31,250	192,298	21,200
Payette	16,900	200	12,100
Pocatello	108,965	106,650	1,011,579
Sandpoint	7,000	Nil	4,650
St. Maries	Nil	18,000	Nil
Twin Falls	84,100	125,100	29,850
TOTAL	$ 1,008,291	$ 1,247,776	$ 1,657,951
GRAND TOTAL	$183,685,720	$161,238,910	$179,686,836

POINTS OF VIEW

Is city planning branch of architecture?

Sydney H. Williams, architect associated with Pacific Planning and Research, Palo Alto, gives his answer to this vital question in the December bulletin of the Northern California Chapter, AIA. The article is not reprinted in its entirety.

THERE are few architects who, like myself, have been devoted for years almost exclusively to the practice of city planning. I am conscious that I work in a field which is substantially different from architecture—different to some extent in attitudes and values, as well as techniques. At the same time I am aware that many architects believe that urban planning is—or ought to be—a branch of architecture, practiced by architects. To what extent is such a belief correct: is city planning a branch of architecture?

It must be granted that architecture and city planning (together with many other fields such as engineering and geography) are directly concerned with man's physical environment. I submit four instances in which the city planner and the architect are conditioned to approach that environment differently: scale, time, the client, accomplishment of plans.

Scale. An architect normally deals with thousands of square feet of enclosed space or with the arrangement of enclosed and open space upon a limited site. A city planner is primarily concerned with the organization of square miles or hundreds of square miles of urban and suburban development. Thus the city planner's natural tendency is to approach the study of small areas from the point of view of the organization of the whole community.

Time. The time span for the design and construction of an architectural project can usually be measured in a few years at the most. Even though a major work of architecture is expected to be useful for many years, principal changes in function seldom occur between conception and completion. By contrast, an urban master or general plan is designed specifically to serve the anticipated needs of a community 20 to 30 years in the future. Study of past trends as well as present characteristics is necessary in order to forecast future needs (which can never be precisely determined). Thus the city planner has a tendency to approach problems of the present or the near future from a very broad scale of time. He becomes aware of the impermanence of most "permanent" solutions to urban problems and emphasizes the need for flexibility in any long-range project.

The Client. Architects are conscious of the problem of working for municipal and corporate clients (as opposed to individual clients); they know that it is usually more difficult to satisfy a committee than to satisfy an individual. The city planner must endeavor to meet the needs in a long-range city plan of a faceless multitude, estimating the needs and desires of the public through the approximate methods of the social sciences. To carry out his plans, the planner must gain the acceptance of an outspoken minority—the political bodies who must adopt plans officially.

Accomplishment of Plans. Well-established practices exist to turn architectural designs into final construction. The architect counts on the completion of his work as a tangible three-dimensional product. By contrast, a general plan is carried out over a period of many years by a complex series of governmental procedures: by zoning and subdivision ordinances, by capital improvement programs and ultimately in actual construction by the work of many individual architects and engineers over whose work he has little control.

I believe that the foregoing are significant examples of differences between city planning and architecture. As examples, they show that the city planner needs to bring a special approach to the design and control of the physical environment and that he must be able to supply knowledge in fields of minor significance to architecture such as sociology, political science, economics and law. Furthermore, city planning as a field merges into and is a highly dependent upon broad regional planning in which knowledge of three-dimensional physical design is of minor importance. The relationship between regional planning and architecture is remote. City planning, to the extent it is related to regional planning, is not a branch of architecture.

City planning, however, is—or should be—intimately related to architecture in other equally important respects. Many architects frankly refer to city planners as "administrators" or "statisticians." What does this criticism means? To me it means that many city planners neglect, to the peril of their profession, the three-dimensional reality of the final product of city planning. Too many well-staffed city planning departments have produced drab, uninspiring plans and have prepared zoning and subdivision ordinances which may lead to built-in and surburban monotony in future years. A city must satisfy fundamental human needs for beauty as well as economic, political and functional needs. If a city planner is trained to think in terms of an urban scale, can he continue to neglect the aesthetic implications of the environment that he creates at that scale?

Although the planner has developed techniques for preparing and carrying out long-range urban plans, he frequently has lost touch with the most elementary techniques of three-dimensional design. Beautiful cities will not be obtained solely by planting street trees and removing billboards. A well-designed civic center will not make up for endless miles of suburban monotony. I do not think that any city planner can escape direct and personal responsibilities for large-scale urban design, any more than an architect can turn over to someone else the responsibility for the appearance of a building. Perhaps a more or less specialized field of urban design will emerge from the design professions, but city planning, as well as architecture and landscape architecture, is a necessary part of the urban designer's background. To the extent that city planning deals with the three-dimensional design of the city, I regard it as a branch of architecture.

From the city planner's point of view, the architect can frequently be criticized for neglecting the relationship of his projects to the urban area as a whole. Otherwise well-designed buildings have been built without proper attention to serious problems of parking and circulation, have been wrongly located for their purpose to the community, have been designed without respect to their streets.

The lack of communication between city planners and architects suggested above is less significant to me, however, than the lack of exploration by architects of design projects intermediate in scale between architecture and city planning. This work, which includes large shopping centers, urban renewal projects, large residential and industrial jobs cannot be done by city planners who are unable to design or by architects who do not understand city planning.

Pacific
Architect
and Builder

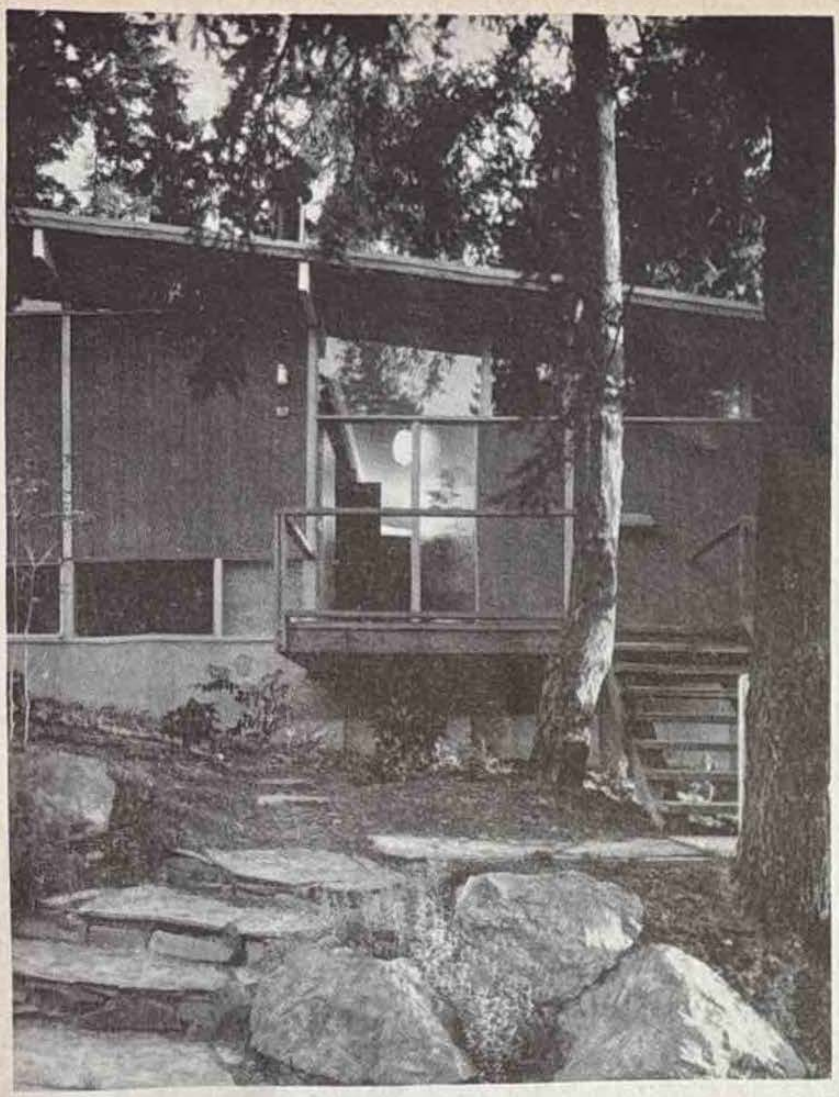
FEBRUARY 1958

Young family living in the Northwest

Walter D. Widmeyer Residence
Tacoma, Washington

WALTER D. WIDMEYER
Architect

ALLEN HAMPTON
Contractor



FRONT ENTRANCE of cantilevered deck, natural stone steps and rockery compliment wooded site. Entry hall with its high ceiling continuous from living room on upper level creates feeling of spaciousness. Brick fireplace wall is 7 ft. high, accented by brightly painted metal stacks.

THIS SMALL HOUSE which the architect designed when his family numbered four (the two boys were joined by a sister last year) truly belies its actual size—1,200 sq. ft., not including the basement level and carport. Living areas are enlarged visually as well as functionally by generous overhangs with extensions of ceiling surfaces and walls beyond glass, by a split-level open plan and by a terrace which is an integral part of the house.

Sited in the Fircrest community on a steeply sloping corner lot only 50 ft. wide, the plan was developed to follow the contours, with a change of level occurring between the living and sleeping areas; directly below, the basement and carport spaces are split in an identical manner. The sloped ceiling surfaces give a continuity in the transition between the upper levels and their varying heights introduce an ever-changing feeling of spacious living. High windows on the entrance side afford privacy from the street and allow the towering firs to be enjoyed from every room—a delightful experience, particularly on the rainy days which are not uncommon in the Pacific Northwest.

The kitchen, which houses washer and dryer, is called the most pleasant room in the house by the architect's wife. ("I love to bake.") It is separated from the living room by a 7-ft. partition topped with indirect lighting and from the dining space by a serving counter with an overhead cabinet, suspended from a beam. Windows have been brought

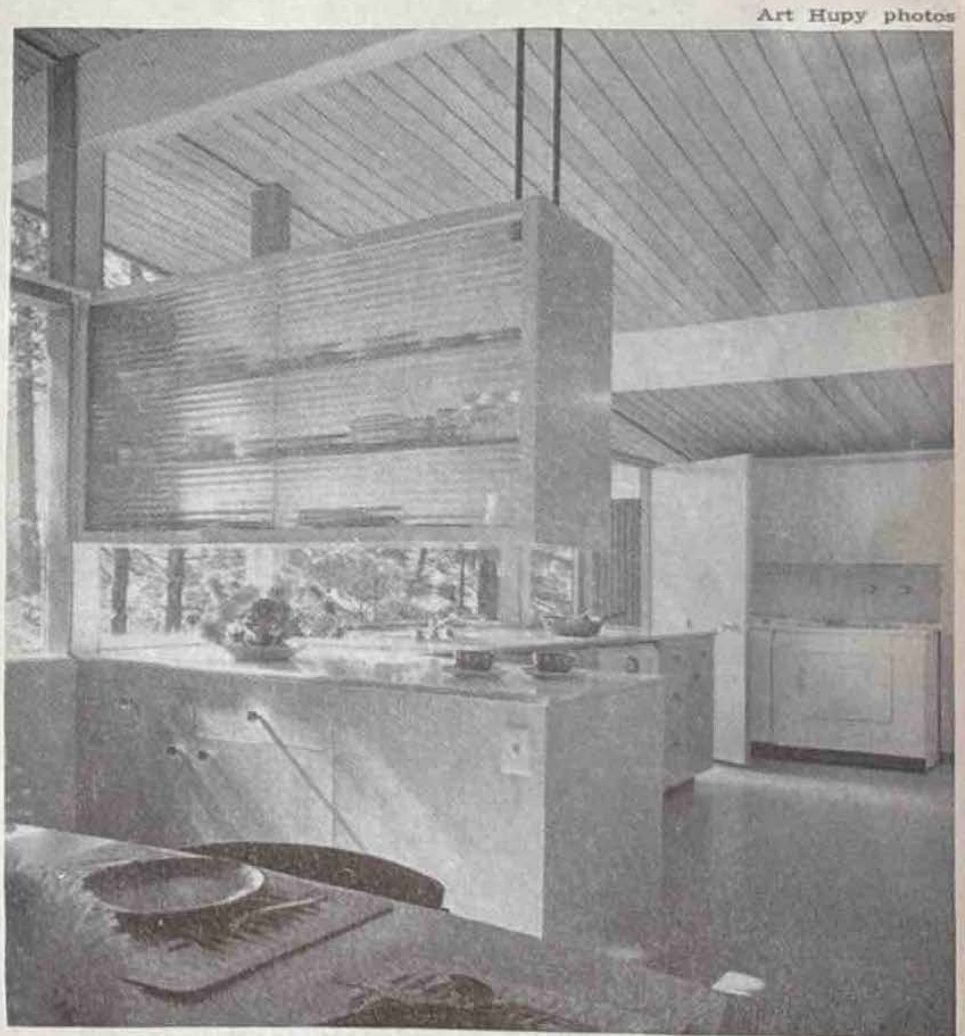
flush to the surface of the extra wide countertops. Another noteworthy feature is the abundance of well-organized storage: sliding shelves for easier access below the counter level, shallow shelving for canned goods, storage door in the utility closet for polishes, etc.

The living room allows for conversation around the fireplace and an activity area near the patio window. The open plan facilitates informal entertaining, which is the rule rather than the exception. During frequent neighborhood coffee hours the mothers can observe the children playing on the patio; and on other occasions the youngsters generally are content to occupy the lower bedroom area. Both the architect and his wife enjoy music, each having studied an instrument for several years, and find that the acoustics are excellent for piano. A high-fidelity installation backing the kitchen partition is next on the family agenda.

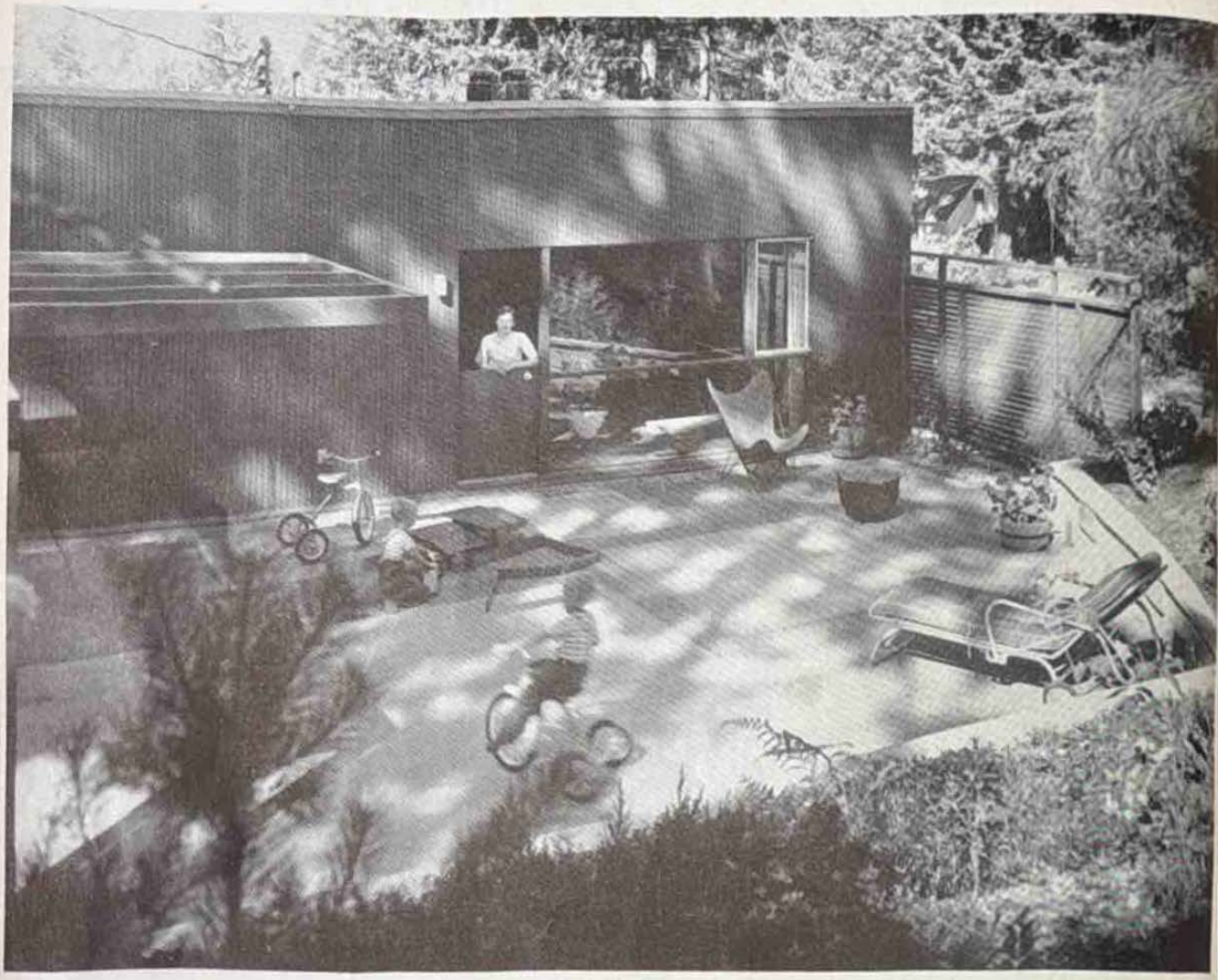
When the basement area is finished, it will include a larger bedroom for the boys, an additional bath and a storage room. The sleeping area, equipped with such facilities as a train table and low beds to serve as sofas, will double as a rumpus room. The room presently occupied by the boys will be used to accommodate guests.

The ceiling of exposed, slightly stained hemlock decking throughout the house is supported by posts and laminated beams painted bone white. Fir plywood, perforated hardboard and plasterboard provide contrasting wall textures; browns, soft yellows and gray-greens are accented by red-orange; white asphalt tile is splattered in a gray and black pattern.

Art Hupy photos

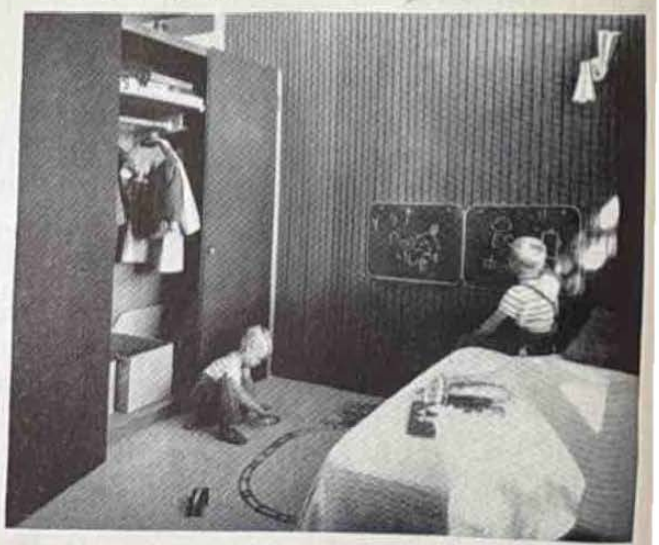


CABINETWORK has plastic surfaced countertops and natural birch fronts. Sliding glass doors of hanging unit provide access from both kitchen and dining space.



TERRACE consists of large concrete slab integrated with exposed aggregate surface to form random pattern. Lath screen and landscaped bank cut off street. Living room window overlooking patio has fluorescent fixture across top.

CUSTOM BUILT WARDROBE is installed as unit to separate boys' bedroom from hallway. One wall of 2-in. grooved plywood presents interesting change of pace.



OUTLINE SPECIFICATIONS

Structure: post and beam on 8-ft. module, painted white; 2x4 t&g roof on laminated fir beams; frame floor.

Exterior Walls: 2-in. Texture One-Eleven and striated exterior fir plywood; stain—Olympic Stained Products Co.

Roof Surfacing: split-sheet, four-ply built-up.

Windows: stopped in wood; vents—Bilt-Rite Aluminum Products.

Doors: exterior: solid core birch and gumwood; interior: hollow core masonite.

Floor Surfacing: asphalt tile—Kentile, Inc., carpeting in master bedroom.

Interior Walls: 2-in. Texture One-Eleven fir plywood; perforated hardboard; plasterboard.

Ceilings: exposed 2x4 t&g hemlock.

Cabinetwork: fir plywood with birch veneer fronts; countertops—The Formica Co.; hardware—Washington Steel Products, Inc.

Insulation: 1½-in. rigid over roof decking; Rockwool batts in walls.

Fireplace: buff roman brick with prefabricated metal stacks.

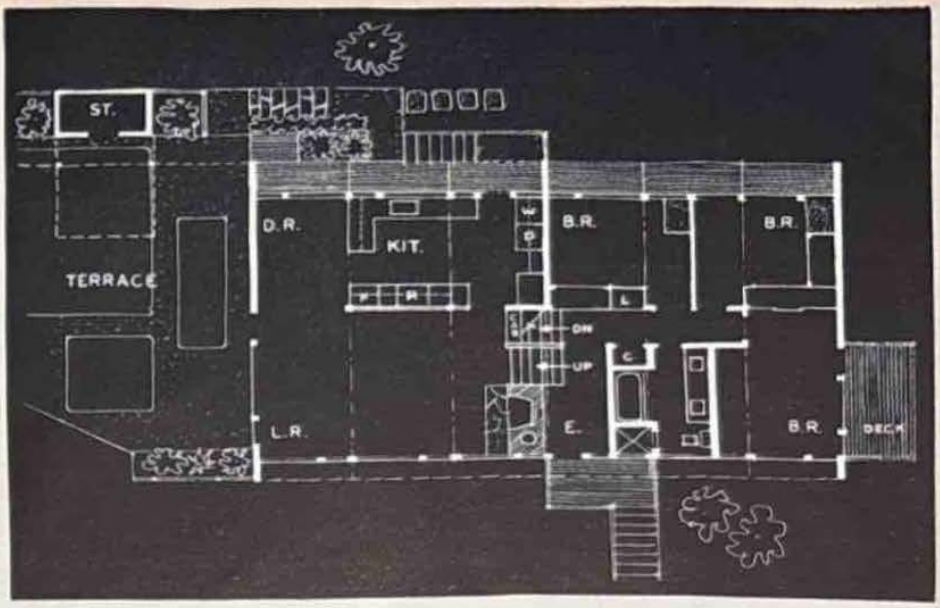
Heating: oil fired warm air unit—Armstrong Furnace Co.

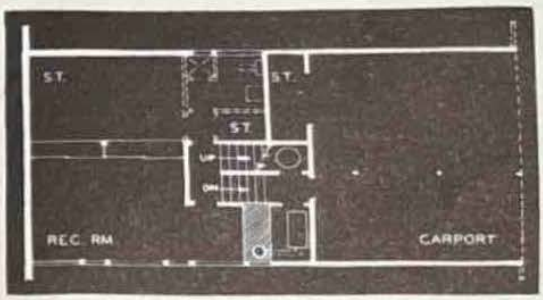
Total Area: 1,200 sq. ft., not including basement level and carport.

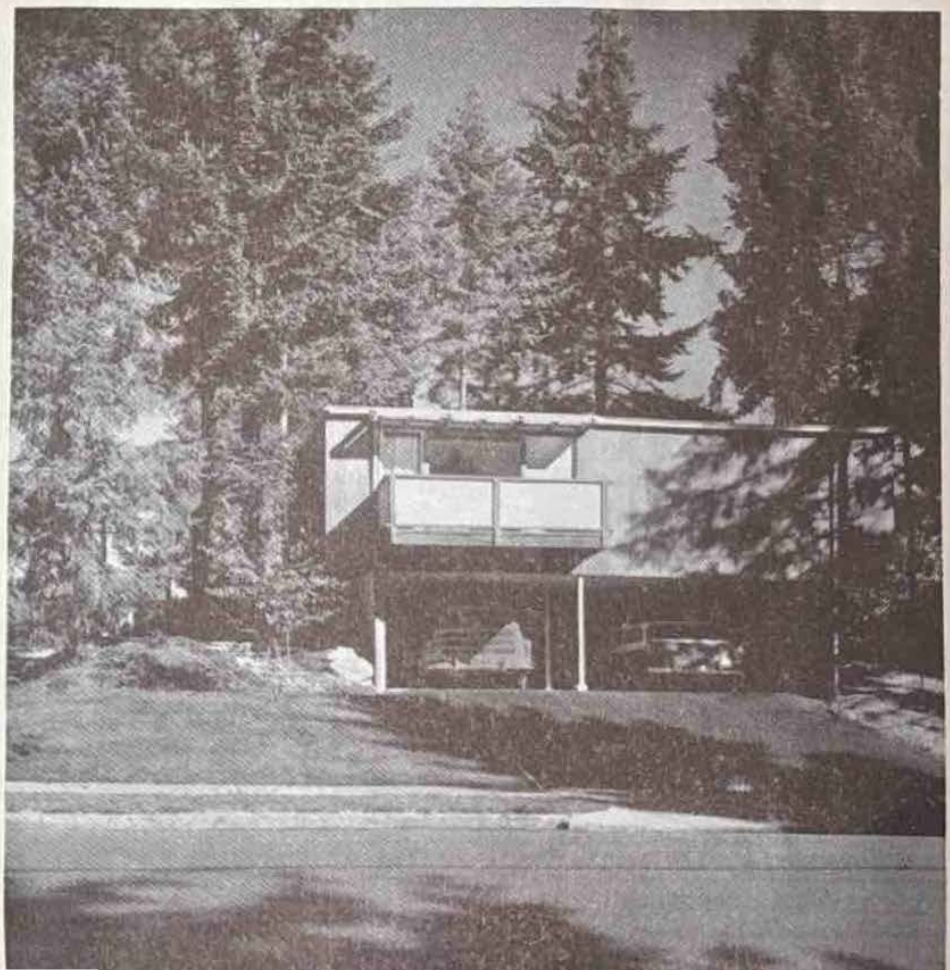
Total Cost: $15,000, not including owner's labor figured at market cost of $1,800.

Cost per Square Foot: $12.50.

Date of Completion: December 1954.







DOUBLE CARPORT located directly below bedroom area has easy access to central stairway. Wood deck with asbestos cement panels off master bedroom affords privacy from street.

Church 'campus' designed for children

Religious Education Building
Neighborhood Church
Pasadena, California

SMITH & WILLIAMS
Architects

ECKBO, ROYSTON & WILLIAMS
Landscape Architects

TED TYLER
General Contractor

THIRD NEW STRUCTURE built for the children of Pasadena's oldest congregation becomes a compatible neighbor to the Children's Chapel and Nursery School through the same patterns of low roofs, exposed beams, overhanging eaves and wide expanses of glass. Diamond shaped trusses and rough carved supports shelter the walks which connect the three buildings, lending a continuity that makes each unit an integral part of the whole; thus the "campus" is of one piece. Simplicity, openness, honesty are the architectural concepts expressed—qualities which it is hoped will have significance for the children who study and worship here.

The Religious Education Building is on three ground levels to fit the contours of the site, with a half-floor difference between the wings running north and south and the building running east and west. The exterior harmonizes with the existing redwood structures. Plaster is always used as an inset panel, framed by wood supporting members. Long beams that hold up the balcony extend through the building and support the floor and, in one instance, a balcony on the other side. Vertical posts extend through two floors, forming the mullions.

Glass walls slide open to extend the work and play area; rooms can be divided by folding partitions to suit the many purposes for which the building was designed. In addition to housing classrooms for the first eight grades, it provides for a church school library, crafts rooms (including space in which the students can leave their artwork and materials from week to week) and staff offices. More than half of the 8,121-sq. ft. of total area is devoted to teaching space.

"Few religious establishments have offered such extensive facilities for children," the architects point out. "The youngsters have a total of 12,300 sq. ft. in the three structures, each of which was designed specifically for child use."

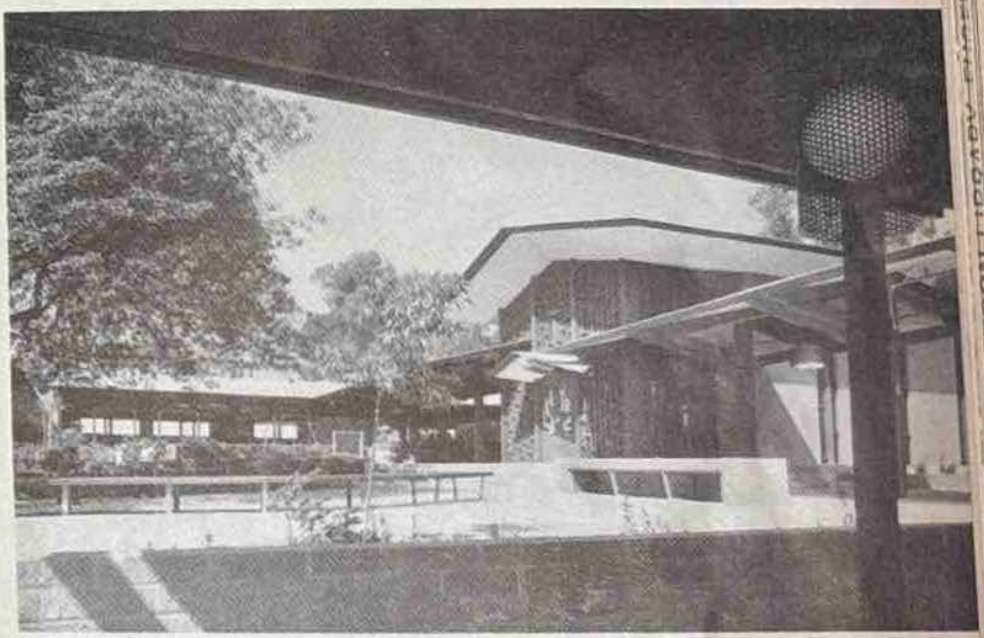
REDWOOD AND PLASTER of exterior harmonizes with other existing structures. Stairwells are covered with broad screens of T-pattern redwood boards. Balcony guards of metal mesh are deep blue.

Julius Shulman photos

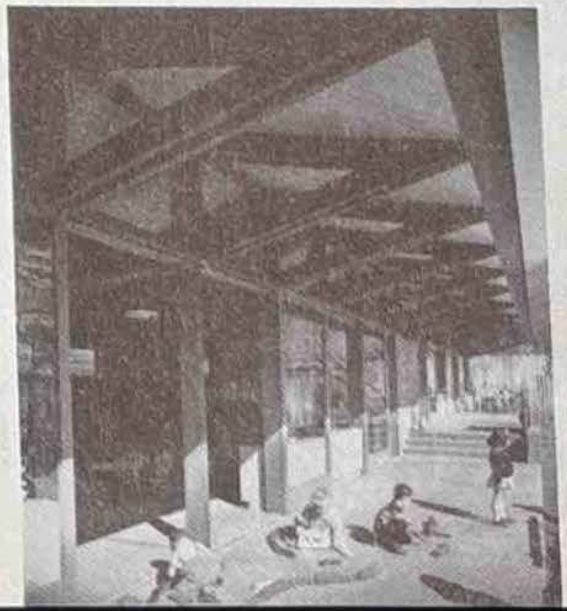
All three of the buildings have been cited for utilitarian and design excellence. Here briefly are the noteworthy features of the other two structures which make up the complex.

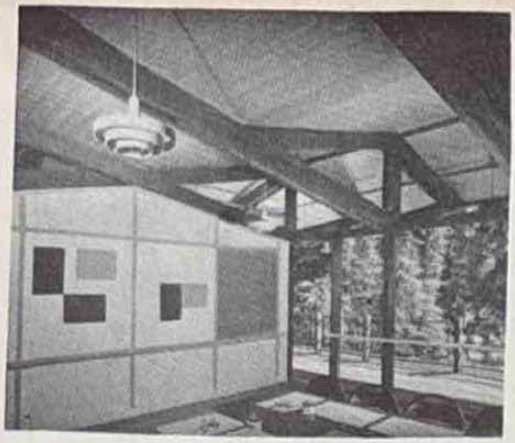
CHILDREN'S CHAPEL: Standing alone, yet linked to the others, it gives the children a church of their own, right next to the classrooms and playgrounds. It is no replica of the main church (almost 50 years old), but uses the same redwood and earth colors, retaining a family resemblance; and more important, it is scaled down to child size. A red brick wall which complies with a four-hour fire protection ordinance became a design feature when it was pulled free of the building, creating an access way to the rear of the altar and capturing garden sunlight as a worship backdrop. The entrance is highlighted by a redwood grille. Sculptural figures secured to the chapel door were carved in ashwood by Albert Stewart. The chapel was completed in 1954; general contractor: Roulac Co.

NURSERY SCHOOL: On a tree-shaded lot adjoining the church property, the first structure containing four large classrooms and central utilities was laid out to house pre-kindergarten children. Here again folding partitions permit flexibility and glass walls on the garden side open into a single work and play area. The back wall which is on the property line has high obscured wire-glass windows; the space below is fitted with tackboards to display artwork and illustrations for lessons. A rustic fence of narrow redwood palings is used to separate the playground from the garden, where the children can gather around a table with their teacher for a quiet story. The school was completed in 1948; general contractor: William C. Crowell Co.



CENTRAL PAVED PATIO, dominated by old Pittosporum tree, provides easy approach to all buildings connected by covered walks. Relationship of three is indicated in photo directly above, showing view of Children's Chapel and Nursery School from Religious Education Building. Diamond shaped trusses and rough carved supports are evident in closeup below.





SUSPENDED DROP FIXTURES with concentric ring baffles are used for artificial lighting of classrooms when needed. Chapel accomodates 80, has acoustical tile ceiling, cork on concrete slab floor.

OUTLINE SPECIFICATIONS

(Religious Education Building)

Structure: Douglas fir plywood frames, spaced 6 ft. o.c., cantilevered 8 ft. beyond building line to support second floor balconies; 2-in. t&g Douglas fir roof; concrete slab and 3-in. t&g Douglas fir floors.

Exterior Finish: Screens of 2x6 and 2x4 redwood in staggered T- pattern; Cabot stains; plaster.

Balcony Rail: Porcelain enameled expanded metal.

Roof Surfacing: Composition and rock.

Windows: Plate glass between posts; glass louvers.

Doors: Sliding glass.

Floor Surfacing: Asphalt tile.

Interior Finish: Plaster.

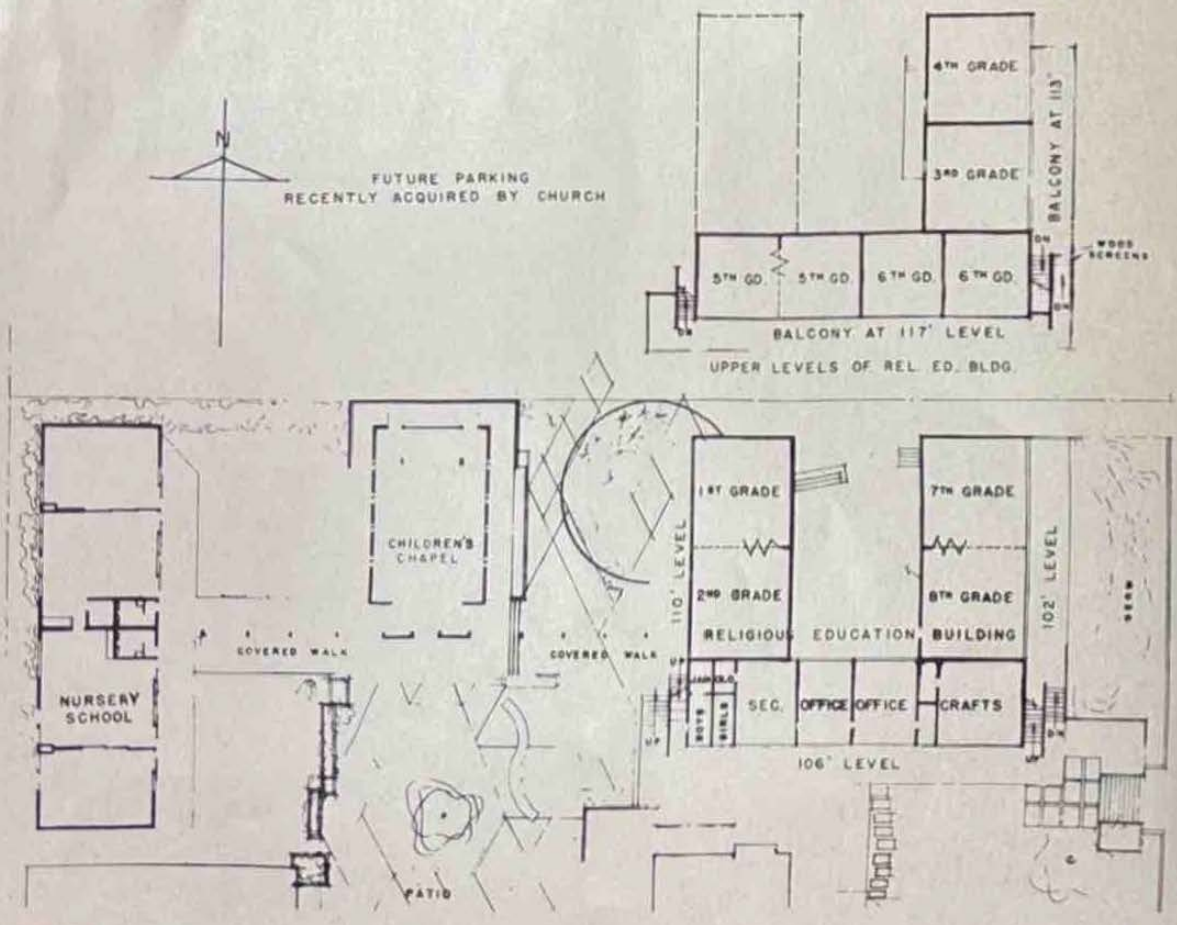
Ceilings: Acoustical plaster, exposed wood beams.

Lighting: Suspended fixtures with concentric ring baffles.

Total Area: 8,121 sq. ft., including balconies and covered walks (1,597 sq. ft.).

Date of Completion: January 1956.

SITE PLAN does not show neighborhood house, church proper and minister's house, all located south of new buildings which make up children's complex. Area marked "future parking" has been completed.



Mountain Savings and Loan Association, Boulder, Colorado
Architect: Hobart D. Wagener, Boulder, Colorado
Contractor: Wilkins Company, Inc., Boulder, Colorado

This bank wanted a fresh approach—commented the architect, "A building to show the cordial comfortable informal glow. Banking institutions often are cold and forbidding . . . we thought that people coming to discuss home loans would like the atmosphere of a home.

"We believe the exposed RILCO laminated wood beams and posts are successful materials for fulfilling the requirement of both the residential and commercial atmosphere. The warmth of wood and the clear expression of the fine material seem to suggest simple clarity to those visiting the building."

That this design was eminently successful is evidenced by the regional award of merit from the Western Mountain Division, American Institute of Architects. We like to feel that the rich warmth of the RILCO laminated members helped win this coveted award. For RILCO brings the functional beauty that only wood possesses, and keeps this beauty for years with minimum maintenance . . . because RILCO members resist cracking, warping.

RILCO laminated wood beams and columns inside and out. Beams 3¼" x 9¾" x 24' 1"; and 3¼" x 9¾" x 21'; Columns 3¼" x 4⅞".

To quote the contractor—"Well pleased with cost results . . . accuracy of construction . . . careful attention to finish and protection of members in shipment."

For additional information contact your nearest RILCO *office.*

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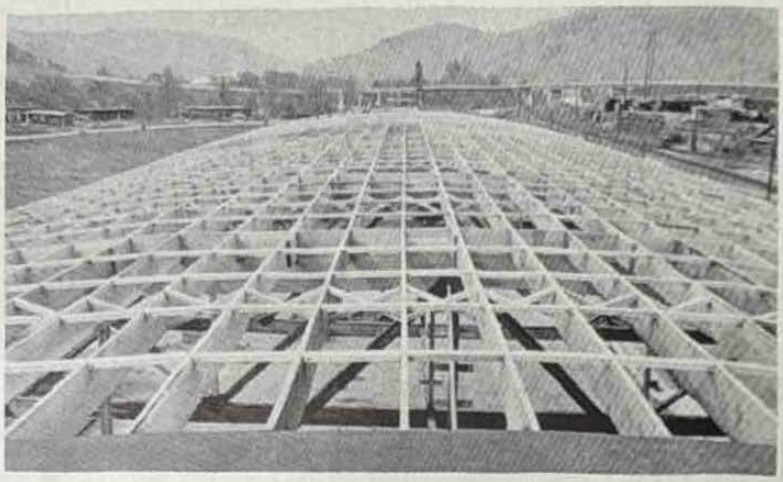
236 Tacoma Building • Tacoma 1, Washington



INDUSTRIAL BUILDING being constructed at Roseburg, Ore., uses plywood roof deck and spray coat surface to replace conventional three-ply built-up roof.

FIRST STEP in new system involves application of 3-in. flexible tape to plywood joints.

Roof system cuts costs of industrial jobs

NEXT STEP is key to entire system. Here workman sprays compound over tape joints.

FINAL COAT of aluminum based spraying compound may be employed to provide heat reflected surface, reducing inside temperatures of plants. Finished roof expanse should last for years with occasional coating such as that used on conventional roofs.

NEW APPROACH to surfacing industrial roofs which is being used by several plywood mills in the Pacific Northwest may find acceptance in other regions because of a cost advantage.

The idea eliminates the conventional three- or five-ply built-up roof in favor of a fir plywood decking, spray coated with a flexible compound. Joints are taped and the Portland manufacturer, Tropical Paint Co., declares that the system produces a high quality job at one-half to one-third the cost of a conventional roof.

Generally the progress of the job begins with the application of the plywood roof deck, PlyScord sheathing with exterior glue being recommended. Panels can be ⅜ to ¾ in., depending upon the framing scheme utilized in the building.

Joints are sprayed or brushed with the compound (trademarked Tropical Roofkoter), taped and then the entire surface sprayed. The material remains flexible so that joints should not leak. Each step can follow one upon the other without delays for drying time or other reasons, permitting the course of the job to flow smoothly and efficiently.

On a recent job Umpqua Plywood Corp. reports that it used ⅝-in. plywood decking over arch trusses and conventional purlins with panels blocked at all edges. "We used one heavy coat of the material sprayed directly onto the decking," a company spokesman says. "The job cost about one-half that of a conventional tar and paper roof. So far it is free of leaks and easier to maintain."

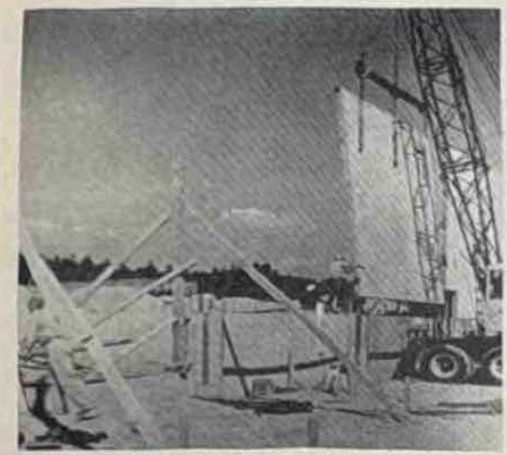
After two years' experience with the material, a Menasha Plywood Corp. official comments that it cuts the cost of a built-up roof, assuming a plywood deck is used, by about two-thirds. He states that "the cost speaks for itself and there is no reason why it will not last indefinitely with an additional coating from time to time, just as it is needed for a built-up roof."

Tropical Paint's own cost figures tend to vary with the demands of individual jobs, as Floyd Campbell, western division manager, points out: "This kind of roof will run about $7 to $8 a square in this part of the country compared with $15 to $20 a square for a three-ply built-up roof. The figures vary, of course, but on a job in Cleveland they came in at $6.50 a square for the spray coat applied directly to the plywood compared with $18 for a built-up surface."

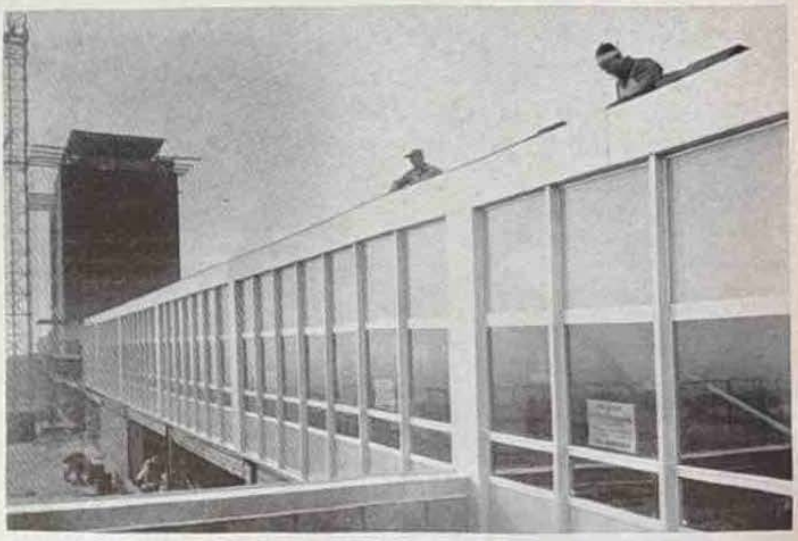
In a number of instances plywood and lumber plants using this system are adding an aluminum base liquid surfacing to provide for a minimum cost heat reflective surface tending to reduce inside temperatures substantially.

EATING SHELTER at $5 million Newport Harbor Union High School, Costa Mesa, Calif., is 100-ft. diameter dome suspended on three points, utilizing standard rolled beams with poured gypsum roof over asbestos formboard. Roof thickness is only 6 in. General contractor: Noyes Roach Co.; architects: Lind, Pleger, Blurock & Hougan.

CONSTRUCTION FRONT

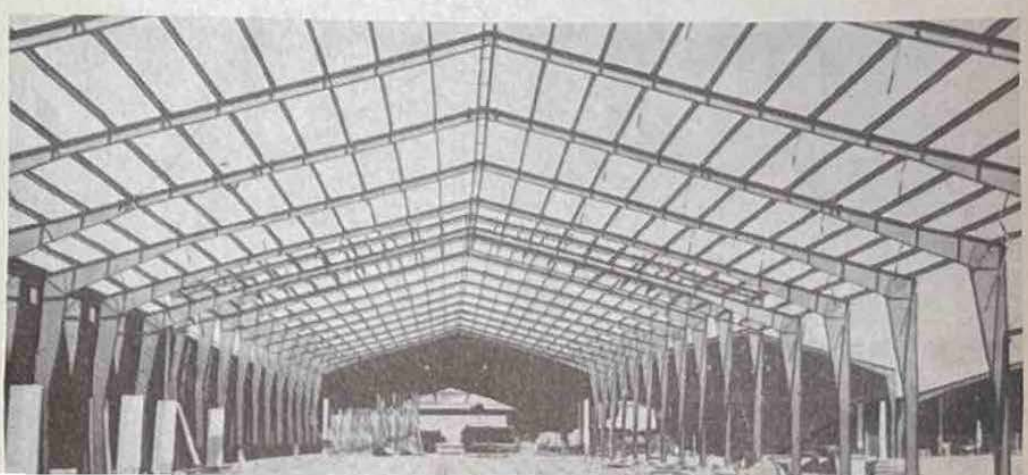


TILT-UP PANEL is erected for fluid milk plant of Seattle's Lucerne Dairy with Hinds Pick-up Arms which also act as temporary scaffolding after serving their initial purpose. Costing $500,000, 33,000-sq. ft. building contains 36 panels each weighing in excess of 18 tons. General contractor: Brazier Construction Co.; architects: Leo A. Daly & Associates.

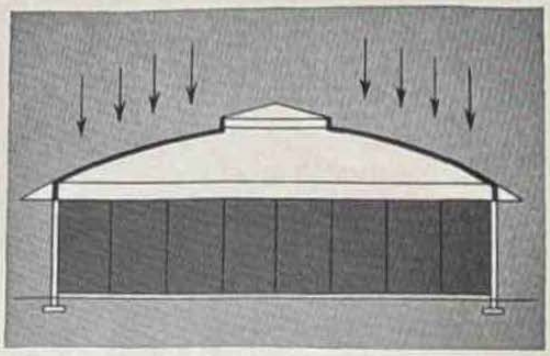


THIRD-LEVEL FRONT of Portland International Airport's new terminal building, now more than 70% completed, will be occupied by rental offices which will enjoy unobstructed view of much field activity. Control tower at left rises another five stories and will accomodate both Port of Portland offices and CAA operations. General contractor: Ross B. Hammond Co.; architects: Burn, Bear, McNeil & Schneider.

ONE OF LARGEST steel frame buildings in world is 500,000-sq. ft., $4 million Convair off-site warehouse at San Diego. Excavation for 800,000 cu. yd. of earth that had to be moved in order to prepare site was begun at almost same moment that design phase got underway. Clay loam of poor-bearing qualities presented compaction problems. Because of urgency of time, 90-ft. span prefabricated Soule steel framing was used, while prestressed concrete girders and columns were specified to support 800-ft. craneways. General contractor: James Stewart Co.; architects: Richard George Wheeler & Associates.



new approaches to structural design with fir plywood



Engineering tests by Douglas Fir Plywood Association showed vault resists three-times-normal roof load. Deflection at midspan was negligible. Note how door-high roof line saves wall area.

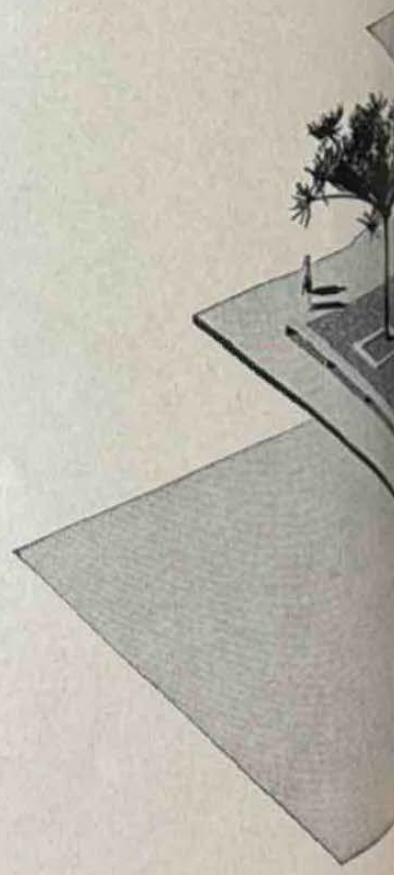
FIR PLYWOOD

ARCHITECT: Robert B. Price, A. I. A., Tacoma, Wash.
Robert C. Wing, Consulting Engineer

IN THIS graceful stressed-skin fir plywood domical roof, Architect Price has developed a simple and precisely engineered unit that combines beams, purlins and roof sheathing.

The first application of this new semi-spherical roof system is in the four-room satellite school shown at right. In its design, Price sought to create "an exciting and stimulating space with a high degree of flexibility and substantial construction economies."

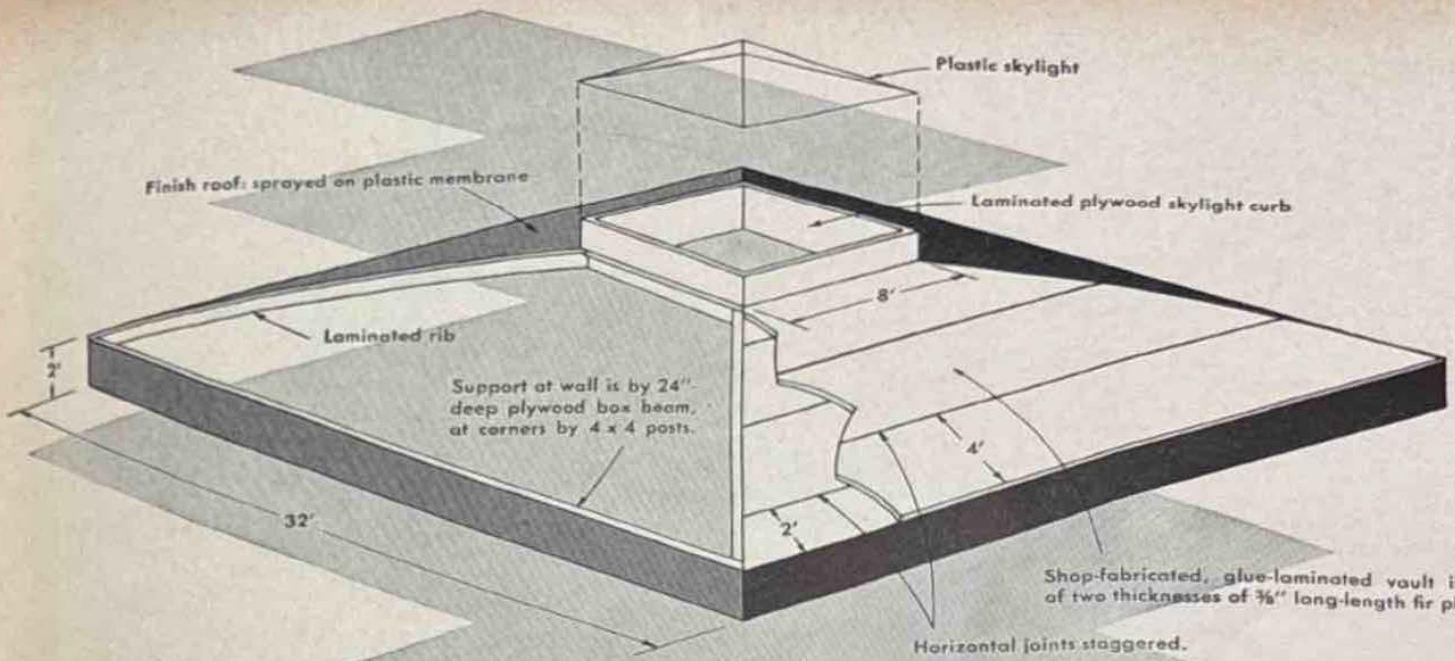
Adaptable to other types of buildings, the Price roof system is a logical design evolution in which lightweight fir plywood replaces heavier and costlier materials. It provides a long, post-free span, pleasing mass and profile, has excellent lighting, insulation and acoustical properties.



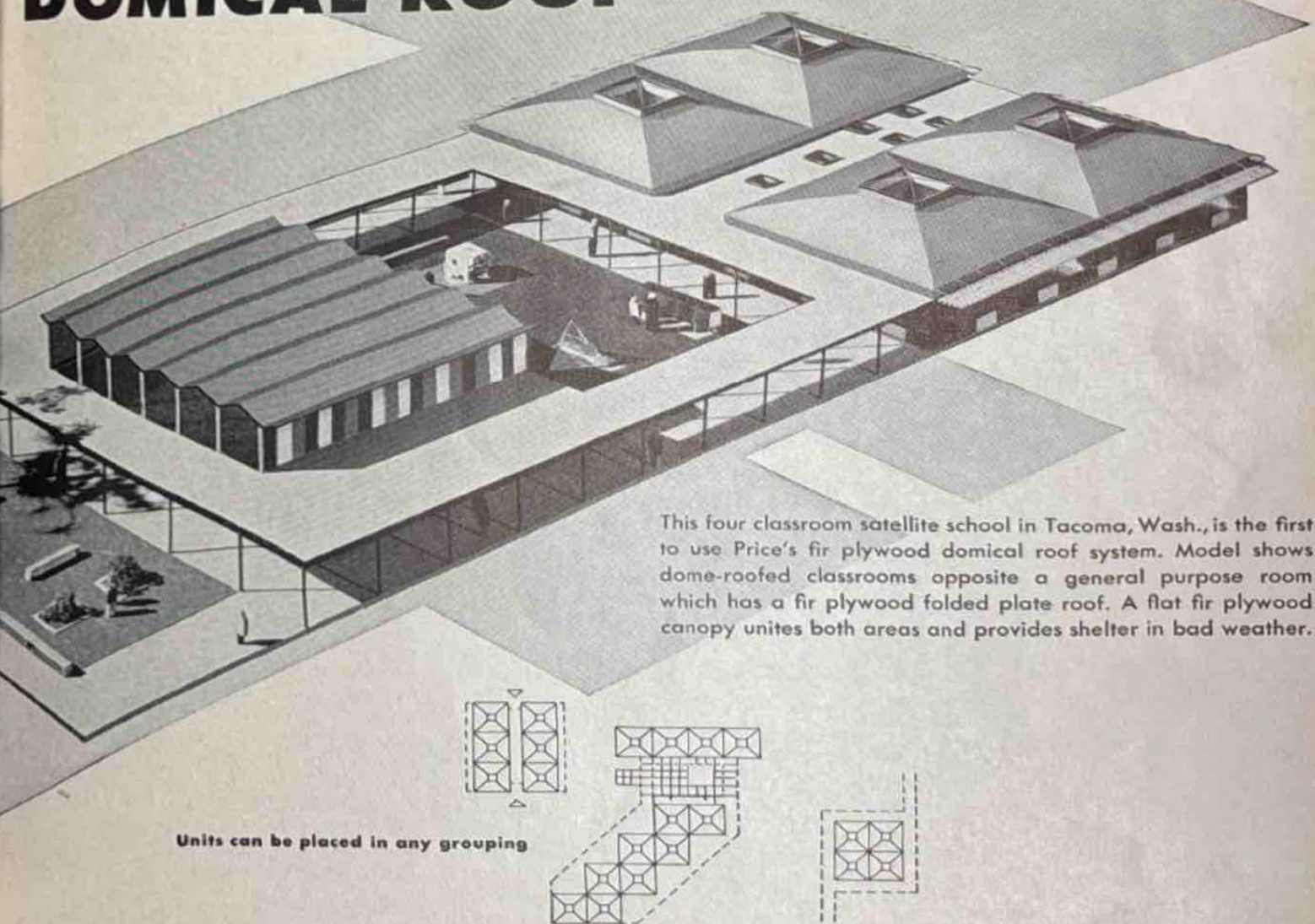
ONE OF A SERIES FROM "SCHOOLS OF THE FUTURE"

. . . a portfolio collection of outstanding designs by six leading architectural firms. Includes details on domical roof shown above. For your free copy, write (USA only) Douglas Fir Plywood Association, Tacoma, Wn.

Also write for information about fir plywood design and engineering consulation services.



DOMICAL ROOF



This four classroom satellite school in Tacoma, Wash., is the first to use Price's fir plywood domical roof system. Model shows dome-roofed classrooms opposite a general purpose room which has a fir plywood folded plate roof. A flat fir plywood canopy unites both areas and provides shelter in bad weather.

Units can be placed in any grouping

PRODUCTS

light fixture

Especially designed to be unbreakable, even when submitted to rough usage, the Ruby Security fluorescent light fixture has many uses in schools, colleges and similar institutions. It fits flush against ceiling or wall and can be opened for relamping only with a special tool. Closed, it is completely dustproof and bugproof and so watertight that it can be cleaned with a hose at full pressure.—Ruby Lighting Corp.

(Item No. 1)

drinking fountain

To satisfy drinking water requirements in heavy traffic locations, Haws has introduced a semirecessed double drinking fountain in stainless steel. Overall front-to-back dimension is 13 in. Model 732 can be used with Haws wall-insert remote cooler units.—Haws Drinking Faucet Co.

(Item No. 2)

modern 'stained glass'

A simple and economical way to make "stained glass" windows of laminated safety glass has been developed by Monsanto, the first commercial installation being made at the University of New Hampshire. There, safety glass seals 240 sq. ft. of abstract painting into a 24-panel window. The artist who created the design applied his paints directly to the surface of the glass. The laminated safety glass then was made by sandwiching three layers of tough plastic sheeting between the painted glass and a sheet of unpainted glass and bonding the five layers with heat and pressure. The artists's work, applied to the inside surface, was sealed protectively into the laminate.—Monsanto Chemical Co.

(Item No. 3)

steel school

Truscon's expandable steel school plan is intended for "outline use" by architects who will adapt this basic pattern to suit individual requirements as to capacity, arrangement, etc. Conceived primarily for a suburban setting, the school can be X-, L-, T- or U-shaped or a modified version. Steel and glass curtain wall panels offered by the manufacturer are bolted together to form one continuous exterior end wall which can be expanded by a simple process of dismantling, repositioning and reassembly. Each unit is about 12 ft. in height and 4½ ft. in width; thickness is about $1\frac{7}{16}$ in.—Republic Steel Corp.

(Item No. 4)

acoustical tiles

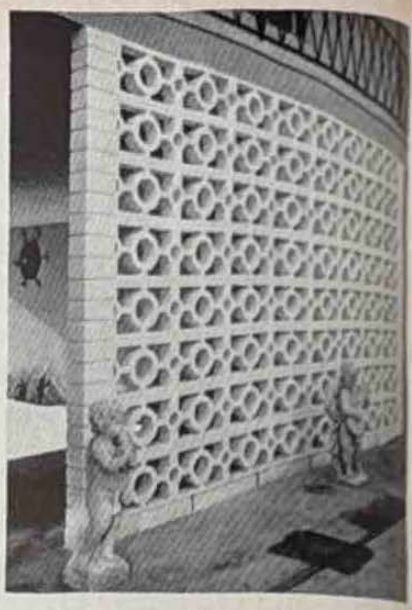
Kaiser has introduced two patterns to round out its Fir-Tex line of fiber acoustical and decorative tiles. These are the regular pattern tile increased to 529 perforations per square foot and the casual pattern of 316 perforations in three different diameters. The complete line has been redesigned with narrower margins, smaller painted bevels and smoother surfaces.—Kaiser Gypsum Co., Inc.

(Item No. 5)

cedar bevel siding

Milled from clear western red cedar, Shado/Edge bevel siding provides a custom material for residential construction at a competitive price. In addition to its dramatic shadow accent, it is factory primed on all surfaces with a transparent water repellent which gives added protection against moisture and lengthens paint life.—Seattle Cedar Lumber Manufacturing Co.

(Item No. 6)



vented block

The Granada vented block, 12 in. wide by 18 in. high, provides a contemporary touch to traditional elements in low cost screening walls for patios, entries, windows and parking areas. It achieves a feeling of privacy, yet admits light and air and the symmetrical openings cast interesting patterns. Gray in color, the block can be easily painted and laid to emphasize either horizontal or vertical lines.—General Concrete Products, Inc.

(Item No. 7)

sliding mirror door

Use of floor-to-ceiling sliding mirror doors for closets and other storage areas adds both new dimensions to the room and extra utility to the closet space. The mirror wall is a packaged product made from Libbey-Owens-Ford Parallel-O-Plate ¼-in. thick glass. It is framed in aluminum and equipped with all hardware for hanging on the overhead heavy duty, double-roller track. National distribution of the Signet Mobile mirror was expected to begin this month through glass and mirror dealers.—Carolina Mirror Corp.

(Item No. 8)

wall-hung toilet

In answer to the many requests received from homemakers, American-Standard has designed a wall-hung toilet styled especially for residential use. The Norwall toilet hangs on a carrier tied directly to wall studs and clears the floor completely. No wall-access panels are needed. To match contemporary decor, the toilet is available in eight colors, as well as white and stands 15 in. high.—Plumbing and Heating Division, American-Standard.

(Item No. 9)

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send without obligation the data about the products or the literature listed on these pages.

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FEBRUARY 1958

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LITERATURE

stone file folder

A file folder of individual sheets for those planning, specifying and installing stone masonry jobs covers such data as preparation of stone, wall section details and setting techniques. Other sheets illustrate popular wall patterns, fireplaces, chimneys, planter walls, flagstone patterns for walks, patios and play areas. Full color reproductions of wall sections show the various tones of the stone.—Briar Hill Stone Co.

(Item No. 10)

redwood index

To assist architects, builders and home planners in the use of redwood products, a revised and categorized index lists 76 data sheets, three booklets and one quarterly magazine which describe numerous phases in production, application and treatment. Range of subject matter on the use of redwood covers such items as interior paneling, walls and siding, garage doors, garden fences and windbreaks, shelters, retaining walls, walkways, patios and garden furniture.—California Redwood Association.

(Item No. 11)

dome skylights

A 20-page guide to aid in design of Plexiglas dome skylight systems is generously illustrated with working drawings and photos showing the various types and accessories which are available from manufacturers. Method of calculating daylighting values is explained, with two actual examples—a school classroom and a warehouse—worked out step by step. —Rohm & Haas Co.

(Item No. 12)

acoustical materials

The 1958 issue of "Sound Absorption Coefficients of Architectural Acoustical Materials" lists products made by AMA members, first in a summary table and then by manufacturer with individual trade names given, along with such data as noise reduction, coefficients and recommended specification range, surface appearance, size, weight, etc. One section covers installation recommendations and information on sound absorption coefficients of general building materials (brick, glass, marble, etc.) and seats and audiences.—Acoustical Materials Association.

(Item No. 13)

school lighting

"What to Look for in School Lighting" is a brief and non-technical outline of the essentials as applied to classrooms and secondary areas. Questions of how much light is needed, what makes for comfortable lighting and the economics of lighting fixture selection are explained.—Garcy Lighting.

(Item No. 14)

family room ideas

"Family Rooms in Beautiful Weldwood" gives 100 illustrated suggestions (most of them in color) for remodeled homes, enclosed wa custom built furniture and cabinets and shelves. The booklet won an award in Ideas for Home Builders con ducted by the Producers' C United States Plywood Corp.

(Ite

unit heaters

Four pages of tips on what to what not to do in installing and for unit heating equipment tre topics as low pressure gravity sy vacuum systems, high pressur tems, branches from steam mains and strainers. Recomm

warm, dry floors,
lower fuel bills,
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maintenance procedures cover motors, heating elements, fans, castings, traps and check valves and special considerations for forced water and blower type unit heaters. Causes and prevention of system corrosion also is discussed.—Air Moving and Conditioning Association.

(Item No. 16)

CATALOGS

Products for Concrete Construction: 56-page catalog which illustrates and describes Universal's complete line of concrete forms, form ties, accessories and construction specialties makes a handy reference for anyone engaged in the forming of concrete.—Universal Form Clamp Co.

(Item No. 17)

Ornamental Building Stones: architects' file has full color data sheets covering eight stones. Each sheet contains a photo of a stone demonstration panel and gives a detailed description of the blend—height percentages, average length and textures of stone and optional faces available—and a concise specification.—Conco Building Products, Inc.

(Item No. 18)

Olympic Redwood Stain: four-page folder shows four shades of stain currently being marketed and tells how to apply for the best results and to achieve a semigloss effect, if one is desired.—Olympic Stained Products Co.

(Item No. 19)

Tamco Air Forced Air Gas Furnaces: six-page catalog describes each furnace series—Clipper Imperial, Clipper and Clipper Horizontal—with applications, features, ratings and specifications. The line is available in 19 sizes, ranging from 70,000 through 200,000 Btu. input, many in both upflow and counterflow models.—Tamco Corp.

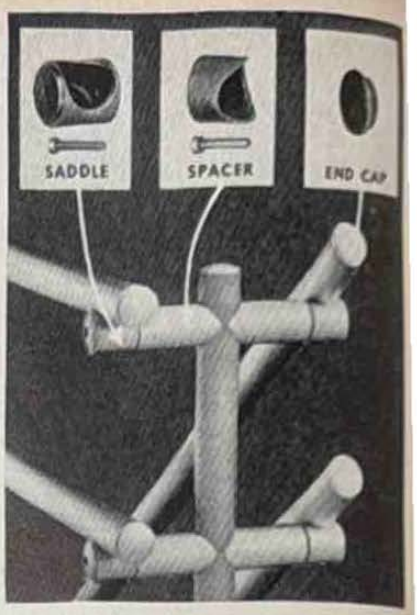
(Item No. 20)

Architectural Aluminum Fabrications: four-page folder discusses one-source service for engineering and fabricating custom designed architectural aluminum products. Photos of current projects illustrate versatility with which aluminum can be fashioned.—Metal Trims, Inc.

(Item No. 21)

Ceramic Veneer: eight-page booklet describes adhesion, anchored, mold pressed, CV Panelwall, screen decorative and sculptured types of the building product; offers a guide to construction details, installation and specifications.—Gladding, McBean & Co.

(Item No. 22)



Universal Handrail System: four-page brochure introduces entirely new handrail system that eliminates need for detail design, templates, prefabrication or welding and automatically adjusts to dimensional variations in floors and stairways. Involved are four basic parts: saddle, spacer, end cap and two $\frac{1}{4}$x1$\frac{1}{2}$-in. screws.—Universal Railing Co.

(Item No. 23)

Sandwich Panel Skylights: four-page folder gives technical and design details of construction employing tensile face materials and compressive cores in a variety of configurations. Drawings show three types of mounting—curb, surface mop-in and flush-deck mop-in.—Architectural Plastics Corp.

(Item No. 24)

Lennox Landmark System: 20-page booklet describes air conditioning system engineered for residential installations which require low power consumption and low noise level, as well as smaller commercial buildings. Heating, cooling coil and blower-filter elements are enclosed in separate cabinets permitting correct selection of air delivery, heating and cooling capacities.—Lennox Industries, Inc.

(Item No. 25)

Owens-Illinois Glass Block: 20-page catalog lists decorative and functional patterns, including the newest designs in solar-selecting glass block; outlines advantages of both solar-selecting and light-directing designs; gives instructions and construction details for large and small size installations in steel, wood and masonry framing; provides convenient dimensional tables as well as data on solar heat control, fuel savings, sound reduction and surface condensation.—Kimble Glass Co.

(Item No. 26)

T-SQUARE TALK

Artists Equity honors Portland architect

Walter Gordon, AIA, is the first to receive an award from the Oregon Chapter of Artists Equity "for outstanding contribution toward the use of painting and sculpture in architecture." The award was made at the opening of a three-week exhibition, "The Artist in Architecture," at the Portland Art Museum. The show was sponsored by Artists Equity and artist members of the museum.

Gordon, who came to Portland in the late '30s as assistant director of the museum, was cited primarily for his crusading for art in architecture. The exhibit included several examples of his own work. A member of the Portland Art Commission, Gordon is now teaching one day a week at the University of Oregon, in addition to maintaining his own architectural practice.

An unusually large number of comments on the exhibit were received by the museum, probably because it showed art put to use in homes, churches, public and commercial buildings. Many of the models shown have not been executed, but gave an idea of what could be accomplished with closer cooperation between artist, architect and client. The 86 entries represented the work of 27 artists and included stained glass windows, glass mosaics, handprinted wallpaper, baptismal fonts, murals, enamel fused on copper and welded, wood and sand sculptures.

Special events in connection with the exhibit included a forum on "Integration of Art in Architecture Today" with Walter Church, AIA; Thomas K. Welch, contractor; Richard T. Turner, chairman of the Portland Art Commission; Manuel Isquierdo, sculptor; and a slide lecture on "Art in Architecture" by Lewis P. Crutcher, AIA.

new offices, partners

✓ Leonard Brooker, AIA-CILA, has established an office for the practice of architecture and landscape architecture at 13543 Ventura Blvd., Sherman Oaks, Calif. (STate 8-3450).

✓ Edward Mahlum, AIA, has opened new offices at 320 Lloyd Building, Seattle (SEneca 7423).

✓ Alex Pierce has opened an architectural office at 1328 S.W. 14th Ave., Portland, where he joins architects William Fletcher, Donald Blair and John Reese; designer Saul Zaik; and interior decorator George M. Schwarz Jr. Each maintains his own office, but the group collaborates on some projects.

✓ The Seattle architectural firm of Wortman & Wilkins is now known as Wortman, Wilkins & Ellison. Principals are C. Noel Wortman, Jess T. Wilkins Jr. and James W. Ellison.

✓ A new partnership of professional engineers, Bouillon, Griffith & Christofferson, has been formed to take over the activities of Bouillon & Griffith at 1411 Fourth Avenue Building, Seattle. Partners are Lincoln Bouillon, L. F. Christofferson, Herbert T. Griffith and Robert H. Schairer.

new associations

✓ John C. Bryant, AIA, and Robert Butterfield, associate, of Everett, Wash., announce the association of Norman G. Aehle, architect, with their office.

✓ Arthur E. W. Dodds, AIA and structural engineer, formerly super-

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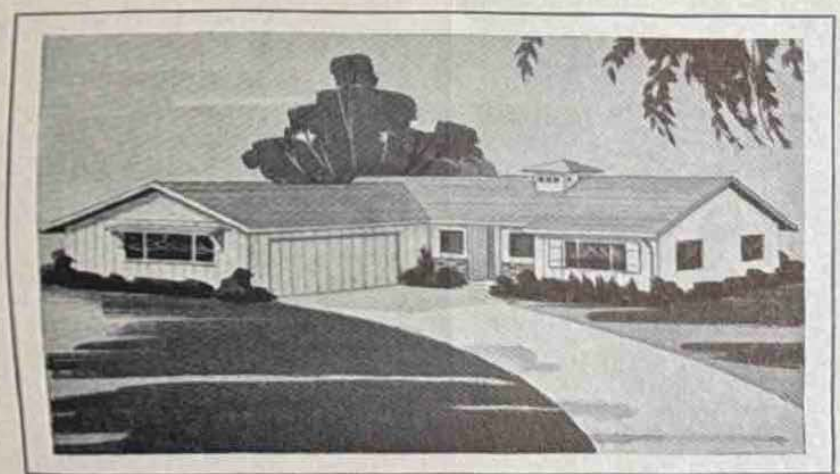

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intendent of the Seattle Building Department, now is associated with the San Francisco architectural firm of Myer & Evers.

elections

✓ New president fo the Consulting Engineers Association of California is Harold P. King, Los Angeles structural engineer. Other officers: John A. Blume, San Francisco, vice president; Arch McDougald, Fresno, secretary; Pecos H. Calahan, Fresno, renamed executive secretary.

appointments

✓ Seattle architect Talbot Wegg has been named the city's urban renewal coordinator to work with a citizen's advisory committee in proposing a program to be submitted to the Housing and Home Finance Agency. He served as Seattle's code research director from 1954-56 and more recently has been with the architectural firm of Bassetti & Morse.

✓ A committee of three practicing architects and two architectural deans has been appointed by the University of Washington Board of Regents to undertake reappraisal of design policy on the campus. They are Lawrence G. Waldron, Seattle; Robert B. Price, Tacoma; Minoru Yamasaki, Birmingham, Mich.; Dean Arthur P. Herrman of the university's College of Architecture and Urban Planning; and Dean Pietro Belluschi of MIT's College of Architecture.

awards

✓ Architect James Stewart of San Pedro, Calif., has won a distinguished community service award from that city's Junior Chamber of Commerce for his work in founding The San Pedro Redevelopment Corp., which plans a survey of the waterfront area in regard to slum clearance and industrial site development.

✓ Earl P. Newberry, AIA, was named Congressman of the Year by the Oregon Building Congress at its 36th annual banquet in January for his long service on the Portland City Building Code Board of Appeals and his general interest in building code problems.

AIA activities

✓ California Council, AIA, will hold its 13th annual convention at Monterey October 15-19, with the Mark Thomas Inn as headquarters and the Monterey County Fairgrounds as site of the professional program. Loy Chamberlain of Oakland will head the advisory committee of six members planning the affair.

✓ Hachiro Yuasa has been named president of the East Bay Chapter, AIA. Other officers are George T. Kern, vice president; William M. Gillis, secretary; and John Austin Zerkle, treasurer. Gerald N. McCue and Francis A. Lockwood are new directors, while the terms of John R. Oyarzo and Harry B. Clausen continue.

✓ The 47th annual banquet of the Oregon Chapter, AIA, will be held at the Columbia-Edgewater Country Club, Portland, February 28, with Mrs. Marjorie Wintermute as chairman. Frank Roehr, a chapter past president, will be toastmaster and John Lyon Reid, FAIA, of San Francisco will be principal speaker.

Newly installed chapter officers are John K. Dukehart, president; Keith R. Maguire, vice president; Robert Douglas, secretary; and Harry K. Stevens, treasurer. Daniel McGoodwin and Earl P. Newberry are new directors; Donald W. Edmundson and E. B. Franks, holdovers; Robert W. Fritsch, past president.

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SUPPLIERS

• **Kaiser Aluminum & Chemical Sales, Inc.,** has appointed Fred B. Scobey of Oakland as western regional sales manager.

• **W. P. Fuller & Co.** has promoted C. E. Ide to general manager of its southern district and L. H. Markwood as director of paint trade sales for the entire company.

• **Unit Masonry Association of Seattle** has elected the following officers: C. L. Gerring, president; James R. Stone, vice president; and E. J. Gill, reelected secretary-treasurer.

• **Fluorescent Fixtures of California** has begun an addition to its main plant in South San Francisco, which will bring its manufacturing and storage facilities up to 130,000 sq. ft.

• **Symons Clamp & Mfg. Co.** has appointed Herb L. Priest as sales representative in the Northwest and he has opened a warehouse-office in Portland.

• **Oroply Corp.** is completing construction of a plant near Oroville, Calif., for the manufacture of a complete line of plywood products. The $2 million enterprise when in full operation will have about 350 employees.

• **Bethlehem Pacific Coast Steel Corp.** has promoted secretary-treasurer Sherman L. Crary to vice president. He will continue to serve as treasurer. C. A. Chafey Jr. has been elected secretary and assistant treasurer and will continue to serve as credit manager.

• **Graystone, Inc.,** of Seattle has appointed J. W. Emory as masonry sales manager.

• **WeberWall Division,** Weber Showcase and Fixture Co., Inc., has named Edsel Curry as sales director for the 11 western states, Oklahoma and Texas. The company also has opened new and larger quarters at 2191 Palou Ave., Apparel City, to serve its northern California market.

• **Crane Co.** has promoted its West Coast sales district manager, William O. Brown of Los Angeles, to general manager of sales, with headquarters at the company's Chicago general office.

• **Utility Appliance Corp.** has appointed Gough Industries, Inc., as Los Angeles metropolitan area distributor for its Gaffers & Sattler line of home equipment appliances for heating, cooling and air conditioning.

• **O'Keefe & Merritt** has assigned Western Utilities Suply Co. of Seattle as its gas range distributor for the states of Oregon and Washington.

• **Pioneer Division,** The Flintkote Co., in expanding its activities throughout the West has named Harry D. Taggart as manager of building material sales and Syd M. Lewis as building material division merchandising manager.

• **Whirlpool Corp.** has appointed Warren Singer as field sales manager and Dave Armbruster as Los Angeles district manager for its air conditioners; and Stephen E. Upton as western regional sales manager for its gas utility division, with headquarters in Los Angeles.

• **American Sisalkraft Corp.** has moved its southern California district representative, Robert D. Wilson, to

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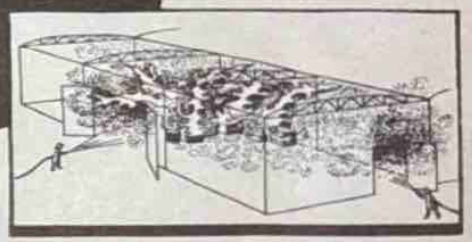

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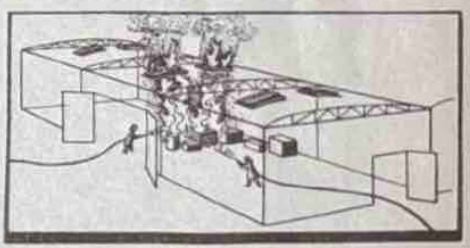

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the Oregon area, working out of Portland.

• **A. C. Horn Co.** has opened a plant at 2438 N. Nesmith St., Portland, to serve Oregon, Washington, northern Idaho and western Montana. James P. Durcan, formerly West Coast sales manager in San Francisco, will direct the new facility.

• **Kaiser Gypsum Co., Inc.,** has appointed Edward K. (Bus) Denning as insulating products manager for its northern division, with headquarters in Seattle.

• **Trimview Metal Products** of Covina, Calif., has given nine awards in a design competition for aluminum sliding glass door handles conducted among students at the California College of Arts and Crafts in Oakland.

• **Owens-Corning Fiberglas Corp.** has appointed Donald Bradshaw, formerly manager of the Phoenix branch of its engineering and supply division, to a similar post in the San Francisco branch.

• **Orr & Sembower, Inc.,** has added three sales representatives in the West: The Brose Co., Oakland, for northern California; Thermal Engineering and Equipment Co., Los Angeles, for southern California; and L. W. Worthington, Billings, for Montana.

• **Farr Co.** of Los Angeles has a new general sales manager, Gordon F. Thruelsen, formerly general manager of Dust Control, Inc., a Farr subsidiary.

• **Viber Co.** of Burbank, Calif., has named Russell S. Stewart as sales manager.

• **Airtemp Construction Division,** Chrysler Corp., has named Joseph S. Topp as manager of its West Coast zone, with headquarters in Los Angeles.

• **United States Plywood Corp.** has opened a distribution center in Eugene, Ore., at 410 Garfield St., across the street from its associated division mill, with Eugene McDonald as supervisor.

• **Harvey Aluminum** is the new corporate name of Harvey Machine Co., Inc., founded in 1914. Executive offices are in Torrance, Calif., with facilities at The Dalles and Salem, Ore., and Milan, Tenn.

• **M. Greenberg's Sons** of San Francisco has promoted U. A. (Harry) Fabris to manager of sales for both that firm and Josam Pacific Co.

• **Wiley-Bayley, Inc.,** of Seattle, has named Murray M. (Mike) Olwell as sales engineer for the Washington-northern Idaho area.

• **John C. Virden Co.** has appointed Donald S. Gleason of Seattle as sales representative covering Washington and Oregon.

national associations

• **Tile Council of America** has elected Richard B. Alexander of Anderson, Ind., as president.

• **Structural Clay Products Research Foundation** of Washington, D.C., has reelected Roy A. Shipley of Pittsburgh as chairman. Among the 35-member board of management are three Californians: James B. Crawford, Kraftile Co., Niles; C. W. Planje, Gladding, McBean & Co.; and John W. Rice, Union Brick Co., San Diego.

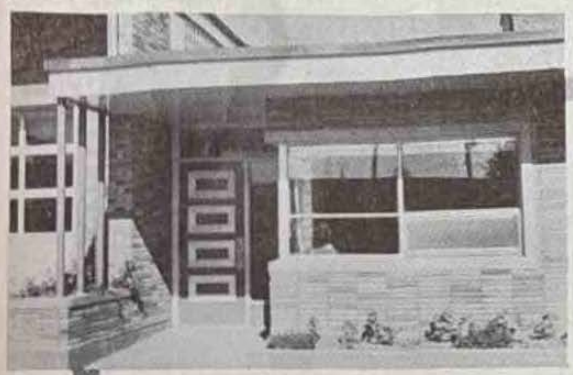
• **Structural Clay Products Institute** of Washington, D.C., has elected Kenneth W. Dunwoody of Macon, Ga., as president. West Coast directors are Alex Corbett of Yakima, Wash., and four Californians: A. E. Barnes, San Francisco; John C. Boggs, Stockton; Norman J. Gatzert, Oakland; and W. C. Reordan, Los Angeles.

• **Weatherstrip Research Institute** of Riverside, Ill., has chosen Charles F. Smith of Memphis as president.

• **Portland Cement Association** of Chicago has elected four new directors, including B. B. Pelly of Olympic Portland Cement Co., Ltd., Seattle.

• **American Institute of Steel Construction** of New York City has reelected N. P. Hayes of Greensboro, N.C. Also reelected was director Paul M. Jacobsen of Pacific Car and Foundry Co., Seattle.

• **Better Heating-Cooling Council** of New York City has elected John H. White of Cranston, R.I., as president for the 1957-58 term. Directors include Alfred Whittell Jr. of Raypak Co., El Monte, Calif.



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Construction News Bulletin

Vol. 64—No. 3 (PA&B) News Section of Pacific Architect and Builder February 15, 1958

Dorothy McCormick ..... News Editor
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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

●REROOFING BUILDINGS— Astoria, Ore.

Bids will be opened 2 p.m., February 25, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for reroofing eleven quarters buildings and Bldg. No. 47, U.S. Naval Station, Tongue Point, Astoria; Spec. No. 12316/57. Specifications with above office.

Work includes removing existing built-up roofing and sheetmetal; preparation of roof decks; providing new built-up roofing; providing gutters, downspouts, flashings and edgings, and painting. SP 2-6

●VOR FACILITY CONVERSION— Baker, Ore.

Bids will be received until February 21 (estimated date), by Civil Aeronautics Administration, Procurement Branch, Box 45007, Airport Station, 5651 W. Manchester Ave., Los Angeles, Calif., for conversion of an existing VOR facility, having a 16'x28' transmitter building, to a VORTAC facility at Baker, Ore.; Proposal No. 4-58-965. Specifications with above office. SP 2-7

★WOOD SHELVING, WALL CABINETS— Beaverton, Ore.

Award to Beaverton Builders Service, 168 N.W. Lloyd, Beaverton, $1,448, by City of Beaverton, Alice B. Martin, recorder, City Hall, Beaverton, for furnishing and installing wood shelving and wall cabinets for the new Beaverton Municipal Bldg. Bids opened January 28. WB 2-12. Previous report 1-25

★AUTO AGENCY BUILDING— Coos Bay, Ore.

Award to Jack Breuer, 1283 N. 13th, Coos Bay, for construction of 17,200 sq. ft. reinforced concrete automobile agency building in Coos Bay. Plans by Sundeleaf & Hagestad, architects, 202 Portland Trust Bldg., Portland. Bids were opened in November and held under advisement. WB 2-7. Previous report 11-29

●COLD STORAGE WAREHOUSE— Corvallis, Ore.

Bids will be opened 4 p.m., February 20, by Modern Freezing and Storage, in the office of Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis, for construction of a reinforced concrete cold storage warehouse measuring 105'x108'x24' to be located just east of the firm's present plant in Corvallis. Alternate bid will be accepted for an additional 105'x108' dry storage area. This contract will not include refrigeration equipment but will include electrical work. Plans available from office of the engineers upon $40 deposit. President of Modern Freezing and Storage is Robert E. Reiman.

Concrete tilt-up walls; long span steel roof deck; prestressed concrete beams; 6" to 7" insulation around the cold storage area; one electrically operated freezer door included. SC 2-8

YOUTH CENTER— Dallas, Ore.

Plans announced by Father A. Rodakowski of St. Philips Catholic Church, Dallas, for construction of a youth center building to be added to the kindergarten room at Washington and Ellis streets in Dallas. SC 2-7

STARTER SCHOOL— Eugene, Ore.

Bids will be called in March by Eugene School District No. 540C, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for a starter school, to be known as the Twin Oaks Elementary School, in the Bailey Hill district southwest of the city of Eugene. Plans are being prepared by Hamlin & Martin, architects, 159 W. 12th Ave., Eugene. The initial unit will include six classrooms, gymnasium, activity space, administrative area and kitchen.

SC 2-7. Previous report 12-28

●PREFABRICATED STEEL BUILDING— Eugene, Ore.

Bids will be received until March 15 (estimated date) by Civil Aeronautics Administration, Procurement Branch, Box 45007, Airport Station, 5651 W. Manchester Ave., Los Angeles, Calif., for construction of a complete VORTAC facility including fencing, road construction, erection of a prefabricated steel building, miscellaneous electrical work and associated work at Eugene; Proposal No. 4-58-974. Specifications with above office after February 17. SP 2-7

★INSURANCE OFFICE BUILDING— Eugene, Ore.

Award to Arnt Ree & Son, 113 W. 18th Ave., Eugene, $114,489, by Standard Insurance Co., 1180 Olive St., Eugene, for construction of a two-story and basement office building at 14th Ave. and Oak St. in Eugene. Plans by Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene.

DB 2-11. Previous report 1-31

TRACTOR PLANT— Eugene, Ore.

Wilmsen & Endicott, architects, 863 E. 13th Ave., Eugene, have been retained by Pape Bros., Inc., H. Dean Pape, president and manager, 1865 W. 6th Ave., Eugene, to prepare plans and specifications for a tractor plant, to include a 31,000 sq. ft. shop, parts and general office building, to be constructed on the northwest corner of Henderson Ave. and U.S. Highway 99, south of Eugene. Plans will be issued to Lane County contractors only and bids will be called early in March. Pape Bros. has 35 acres of land in the area where construction is planned, and a railroad siding will be built to the contemplated plant.

The building will be of tilt-up reinforced concrete construction on concrete slab floor; wood trusses; built-up roofing; wood interior finishes; electric heating system (tentative). DB 2-12

●■ CHURCH EDUCATIONAL BUILDING— Forest Grove, Ore.

Bid opening extended from February 12, to 3 p.m., February 21, in office of Warren Weber, architect, 610 Fenton Bldg., Portland, for construction of a 13,000 sq. ft. brick religious education building for the First Congregational Church, just south of the church between Main St. and College Way, Forest Grove. Select list of bidders.

Additional planholders: Norman Builders, 2805 S.W. 3rd Ave., Portland; Beebe Construction Co., 2134 N. Flint Ave., Portland. (Plans have been returned by Royal Motley). WB 2-11. Previous report 1-29

■ SCHOOL ADDITION— Grants Pass, Ore.

Planholders announced for construction of a one-story, 5,390 sq. ft., lightweight concrete block homemaking and shop addition to North Junior High School, N.E. 8th and Olive St., in Grants Pass. Plans with Robert F. Fisher, architect, 220 N.E. Beacon Drive, Grants Pass. Bids will be opened 7:30 p.m., February 17, by Josephine County School District No. 7, 610 N.E. A St., Grants Pass.

Planholders: Duane Hutchins, 1310 N.W. Hawthorne; Howard Wirtz, 2000 Highway 199; Cummings Construction Co., 1050 S.E. Belle Aire Drive; J. K. Cooke, 1960 W. Fruitdale Road; Southern Oregon Construction Co., 925 S.W. Greenwood Drive; Aus-

land Construction Co., Box 437; Harold W. Salter, Rogue River. Of Grants Pass unless noted. SP 2-11. Previous report 2-5

SCHOOL ADDITION— Gresham, Ore.

Bond election for $50,000 will be held February 27 by Orient School District No. 6-300Jt., Wesley Johnson, chairman, Route 2, Box 341, Gresham, for addition of three classrooms and cafeteria at the West Orient School, and purchase of parking space at the East Orient School. The schools are located four miles east of Gresham on the Mt. Hood Loop Highway. WB 2-12

● HIGH SCHOOL— Junction City, Ore.

Bids will be opened 8 p.m., March 4, by Junction City School District No. 69, Junction City, for construction of a masonry and frame, 36,000 sq. ft., 350-student capacity high school to be located on a 16-acre site west of the old high school at Junction City. Plans with Hamlin & Martin, architects, 159 W. 12th Ave., Eugene. $50 deposit. Mechanical engineers are Marquess & Marquess, Tiffany Bldg., Eugene; electrical engineers, Grant R. Kelley & Associates, 1008 S.W. 6th Ave., Portland.

Plans call for nine classrooms, a library, gymnasium, administrative suite, dressing rooms, shop and boiler rooms. Construction will be slab on grade. The classroom wing will be frame brick veneer; library and gymnasium will have glued laminated beams, the latter with exterior wainscoting of concrete block and rough cedar siding on the upper wall. DB 2-12. Previous report 2-7

★FAMILY HOUSING—Kingsley Field, Ore.

Award to Gresham Construction Co. and Alcan Realty Co., Box 300, Santa Clara, Calif., $1,135,470 (joint venture), by U.S. Air Force, Purchasing and Contracting, 408th Fighter Group, Kingsley Field, Klamath Falls, for construction of 70 family housing units at Kingsley Field. Plans by Howard R. Perrin, architect, 1121 Main St., Klamath Falls. ZZ 2-7. Previous report 1-30

▲OIL STORAGE BUILDING, TANK, PUMP— Klamath Falls, Ore.

Four bids received by Department of the Army and the Air Force, National Guard Bureau, U.S. Property and Fiscal Officer for Oregon, 504 State Office Bldg., Salem, for construction of oil storage building and gasoline dispensing facilities at Klamath Falls. Bids opened February 5. BIDS: A. E. Fitzgerald, 329 Rogers, Klamath Falls, $4,351; Phoenix-Matthews, Inc., 1040 N.E. Baldwin, Portland, $5,123; Pinniger & Watkins, 1430 Klamath Ave., Klamath Falls, $5,170; Ward's Construction Co., 1525 Ogden, Klamath Falls, $6,100. CP 2-12. Previous report 1-24

WILSON ELEMENTARY SCHOOL— Medford, Ore.

Plans are nearly complete by James L. Payne, architect, 725 S. Commercial, Salem, and Wayne Struble, resident architect, 611½ Jackson, Medford, for the one-story, concrete block, finger plan Wilson Elementary School to be constructed at Medford for Jackson County School District No. 549C, Administration Bldg., 500 Monroe St., Medford. $25 deposit on plans when available.

Reinforced concrete footings and foundation; concrete slab floors; steel pipe columns; glued laminated beams, 2x6 decking; masonry partitions; wood stairways; aluminum sash; exposed block exterior and interior wall finish; wood trim; exposed masonry partitions; asphalt tile flooring; acoustical ceilings; folding doors; rigid insulation on roof deck; fluorescent lighting; hot water heating system, sawdust fuel. SP 2-12

● CAN MANUFACTURING FACILITIES— Milton-Freewater, Ore.

Bids will be opened February 14 by Rogers Canning Co., 1005 S. Mill, Milton-Freewater, for construction of a building on S. Mill St. to house can manufacturing facilities which will be installed by Continental Can Co., H. M. Blinn, Pacific Division vice president, San Francisco, Calif. An additional storage warehouse is also planned by Rogers Canning Co. on a site adjacent to its present location. SC 2-7

■ SCHOOL ADDITIONS— Milwaukie, Ore.

Planholders announced for construction of additions to Ardenwald Grade School, near S.E. 32nd Ave., to Hector Campbell School, off S.E. Railroad Ave., and to Dale Ickes Junior High School on S.E. Harmony Road, all at Milwaukie. Bids will be opened 8 p.m., February 25, by Milwaukie School District No. 1, Clackamas County, Arwid W. Bertman, clerk, Administration Office, 2145 Monroe St., Milwaukie. Plans with Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit.

Planholders: Juhr & Sons, 1339 S.E. Gideon St.; Gene H. Settergren, 1625 S.E. Woodward St.; C. M. Corkum Co., 2630 S.W. 2nd Ave.; A. C. Bardi, 8105 S.E. Duke St.; Riverman & Sons, 1230 N.E. 63rd Ave.; St. Pierre & Vermilyea, 10505 N.E. Beech St.; Norman Builders, 2805 S.W. 3rd Ave.; Douglas Lowell, 711 S.E. 122nd Ave.; J. W. Hannaman, 2215 S.E. Gladstone St.; A. R. Nieman Construction Co., 20th and Main St., Vancouver, Wash. Of Portland except as noted.

WB 2-12. Previous report 2-1

HIGH SCHOOL— North Bend, Ore.

Preliminary plans underway by Hamlin & Martin, architects, 159 W. 12th Ave., Eugene, for a new high school at North Bend, for Sunny Hill School District No. 26C, North Bend. An April date is expected but not yet set for a bond election in the district to finance the school. SC 2-7

● HIGH SCHOOL ADDITION— Philomath, Ore.

Bids will be opened 8 p.m., March 6, by School District No. 17-C, Benton County, Henry O. Pete, clerk, High School Bldg., Philomath, for 18,000 sq. ft. wood frame addition to the high school. Plans with Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Music room, corridor and classroom will have glued laminated posts and beams, brick veneer exterior, with concrete slab floors, acoustical tile ceilings, plaster wall finish and asphalt tile flooring. The gymnasium will be frame with rustic exterior siding, glued laminated arches and maple floor; the showers will have ceramic tile walls and floors. Both portions will have built-up roof and aluminum sash.

WB 2-8. Previous report 10-18

★HOUSING UNITS— Portland, Ore.

Award to Charles S. Camplan, 2034 S.W. 58th Ave., Portland, $314,700, by Portland Housing Authority, C. S. McGill, executive director, 8920 N. Woolsey Ave., Portland, for construction of 40 wood frame duplex housing units at Columbia Villa Housing Project on N. Woolsey Ave. a few blocks north of Columbia Park. Plans by Don Byers, architect, 1620 S.E. Ankeny St., Portland.

WB 2-7. Previous report 1-30

■ LLOYD CENTER DEVELOPMENT— Portland, Ore.

Revised list of planholders announced for construction of the Lloyd Center to be developed in the 40-square block area bounded by Multnomah St., N.E. 9th Ave., N.E. 15th Ave. and Broadway in Portland. Bids will be opened 2 p.m., February 27, at the Lloyd Corp. office, 720 N.E. 12th, Portland. Plans issued to a select list of contractors by John Graham, architect, 1426 Fifth Avenue Bldg., Seattle.

Planholders — GENERAL: Anderson & Westfall Co., Inc., 3427 N.E. Halsey; Fred W. Carter Co., Inc., 6034 N.E. 60th Ave.; Donald M. Drake Co., 1600 N.W. Savier St.; Henry George & Sons, Hutton Bldg., Spokane; H. Halvorson, Inc., Box 6, Yardley, Wash., and Carl M. Halvorson, Inc., Box 1449; Ross B. Hammond Co., 1241 N. Williams Ave.; Hoffman Construction Co., 715 S.W. Columbia; Juhr & Sons, 1339 S.E. Gideon; Max J. Kuney Co., N. 120 Ralph St., Spokane; Henry M. Mason Co., 2206 N.W. Thurman; Frank C. Ralph & Son, 2204 N.E. Alberta; E. E. Settergren, 3723 S.E. 21st Ave.; Smith-Phillips Co., 7402 S.W. Macadam Ave., and Diversified Builders, Inc., 719 Securities Bldg., Seattle; Sound Construction and Engineering Co., 1300 Aloha St., Seattle; Del E. Webb Construction Co., 5101 San Fernando Road West, Los Angeles, Calif.

EXCAVATING, ROUGH GRADING: & M. J. Conley, 4332 N.E. Royal Court; M. Halvorson, Inc.; Heintz Construction, 211 N.E. Columbia Blvd. (Box 1806); Jersey, Inc., 3647 S.E. 34th Ave.; Kuetzi Construction Co., 11104 N.E. Holman; Max J. Kuney Co., Spokane; Frank & Co., 5200 N.E. Alberta St.; Natt McDo Co., 824 Pittock Block; O & K Constru Co., Route 1, Gresham, and Vernie Gresham; Salem Sand and Gravel Co., N. Front St., Salem. UNDERGROUND ITIES: Donald M. Drake Co., 1600 Savier St.; Lent's, Inc., 279 4th St., Be ton, Wash.; Lord Bros. Contractors, 5607; P. S. Lord Mechanical Contra 4507 S.E. Milwaukie Ave.; Natkin & Co., S. Delaware St., Denver, Colo.; A. G. light & Co., 3900 N.W. St. Helens; Sand and Gravel Co., Salem; Urban P ing and Heating Co., 2904 S.W. 1st Ave., Portland unless noted.

SP 2-12. Previous report

CITY-COUNTY BUILDING—Portland,

A second proposal for construction building for lease as a city-county buil has been submitted to Multnomah Co and City of Portland officials by a g of Portland investors organized by Ted Smith of Affiliated Brokers, Builders change Bldg., Portland. The proposal is erection of a building and leasing it to city with an option to buy. If the buil is leased for 20 years, ownership would turned over to the city and county. L summer the Del E. Webb Construction Los Angeles, Calif., offered to erect a bu ing to be leased to the city and county $4.50 per sq. ft., with ownership of the bu ing to be transferred to the city and cou in 30 years.

Preliminary sketches have been prepa by Dougan & Helms, architects, and Ch Ertz, associate, Royal Bldg., Portland, s ing for a multi-story building which w be located on a half-block tract on Main between S.W. 4th and 5th in Portla Alternate plans have been presented, calling for a 100'x200' 11-story building aluminum and enamel steel exterior, and other for a 12-story building with ma exterior. Project includes two levels below-the-street parking facilities, provi space for 154 automobiles.

SC 2-8. Previous report

GRADE SCHOOL ADDITION—Portland, (Estimated cost $130,000)

Working drawings are underway by Ro Germain Thompson, architect, 7404 S.W. cadam Ave., Portland, for a separate b ing addition to Lent Elementary School, S.E. 97th Ave., Portland. Bid call wi issued late in April by Portland School trict No. 1, L. J. Baker, business man 620 N.E. Halsey St., Portland.

Building will include five classrooms, and girls' toilet rooms, teachers' mechanical; room, janitor's room, and st loaded corridor. Reinforced lightweight construction ;brick veneer exterior on s west side; trussed rafter roof; compos roofing; aluminum sash; vinyl asbesto flooring; acoustical ceilings; painted walls; fluorescent lighting; heat excha for hot water heating from existing b combination of convectors and warm air

WB 2-12. Previous repo

CONVALESCENT HOME— Prineville,

Preliminary plans have ben complete J. E. Wicks, architect, 1129 Commercial toria, for a proposed 20-bed, brick and Crook County convalescent home in P ville. Hill-Burton funds will be so and voters may be asked to extend $20,000 annual tax levy which was vote three years. This will bring the total am to about $160,000. DC

REST STATIONS— Salem, (Estimated cost $50,000)

Forrest Cooper, assistant state high engineer, Oregon State Highway Com sion, Salem, has announced that prop rest stations on Oregon freeways wil constructed only in areas where rest f ities are not available. The commission not yet decided where to locate the

steps, although Cooper indicated that one would be on the Salem-Portland Freeway north of the Willamette River and another between Eugene and Albany. SC 2-7

●LIGHTING FIXTURES— Salem, Ore.

Bids will be opened 2 p.m., February 21, by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem, for constructing and installing special lighting fixtures in the reference room at the Oregon State Library at Salem. Plans with Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland. $10 deposit. Certified check or bid bond 100%. WB 2-7

▲OFFICE BUILDING— Salem, Ore.

Bids received February 7 in the office of James L. Payne, architect, 725 S. Commercial, Salem, for construction of a two-story, 10,250 sq. ft. concrete block and frame office building for the Oregon Farm Bureau Federation, 1700 S. Commercial St., Salem. The new structure will be built at St. Commercial and Superior streets. LOW BASE BID: George Johnston, 260 Luther, Salem, $91,779. DC 2-11. Previous report 2-6

GENERAL HOSPITAL ADDITION— Salem, Ore.

The low bid of $53,568 submitted by Erwin E. Batterman, 147 N. Commercial, Salem, has been approved and accepted by the executive board of Salem General Hospital, 2561 E. Center St., Salem, for construction of a reinforced concrete addition to and remodeling of the hospital. Official awarding of contract is waiting federal approval. Eight bids were received at the January 30 bid opening. Plans by James L. Payne, architect, 725 S. Commercial, Salem. CP 2-12. Previous report 2-1

MOTEL— Salem, Ore.

Construction is expected to start within two months on the Marion Motor Hotel just south of the Marion Hotel at Commercial, Trade and Liberty streets, Salem. It has been announced by Del Milne, hotel manager. Plans are underway by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland.

The motel will include a one-story structure housing a banquet-convention room seating 1,000, with eating facilities for 750, a public dining room for 150, and a coffee shop for 100; new lobby on Trade St.; swimming pool at entrance drive; cocktail lounge with dance floor; drive-in-registration facilities; automatic elevator to link the new building with the existing hotel; 20 motel-type guest units (40 additional to be added later). WB 2-12. Previous report 1-25

SWIMMING POOLS— Salem, Ore.
(Estimated cost $180,000)

Plans will be completed March 1 on rehabilitation of two public swimming pools, one at Leslie and one at Olinger playgrounds. Architect for the project is Benjamin E. Cave, and structural, mechanical and electrical engineers are Clark & Groff Engineers, 3240 Triangle Drive, Salem. Plans call for new pool equipment, plumbing rehabilitation and other items.

DM 2-12. Previous report 12-28

CAPITOL ROTUNDA PAINTING— Salem, Ore.

Installation of a scaffold required for repainting the State Capitol Bldg. rotunda, including interior of the tower, is underway by Scaffold and Equipment Co., 4519 S.E. Johnson Creek Blvd., Portland. The scaffold is of steel construction and 13,000' of planking is included. Painters regularly employed by the state will perform the six-week painting project. SC 2-12

★HIGH SCHOOL ADDITION— Tigard, Ore.

Award announced by Tigard Union High School District No. 2J, Washington County, Tigard, for construction of an eight-classroom, concrete and wood addition to Tigard Senior High School, 9000 S.W. Durham Road, Tigard. Bids were opened February 6. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor, Portland. AWARD: Walker & Green, Route 3, Box 207, Oregon City, $137,518. 2ND LOW: Gene Settergren, 1625 S.E. Woodward, Portland, $142,300. 3RD LOW: Anfelt B. Hansen, 4115 S.E. Ogden, Portland, $143,840.

WB 2-8. Previous report 1-30

WASHINGTON

★CENTRAL PARK SCHOOL— Aberdeen, Wash.

Awards announced by Aberdeen School District No. 5, Box 100, Aberdeen, for construction of the 285'x85' ten-classroom Central Park Elementary School to be located on site of the existing school at Central Park, about six mi. east of Aberdeen. Plans by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma. Eleven general, nine mechanical and three electrical contract bids were received for the February 6 opening. GENERAL—AWARD: Lamb Construction Co., 506 S. F St., Aberdeen, $147,493 ($148,772 basic and alts.). 2ND LOW: Frazer Construction Co., 314 W. Wishkah, Aberdeen, $154,835. HI BID: Ed Lundgren, 809 N. K St., Aberdeen, $174,749. MECHANICAL—AWARD: Lent's, Inc., 279 4th St., Bremerton, $58,838. 2ND LOW: Standard Plumbing and Heating, Box 188, Manette Station, Bremerton, $61,074. HI BID: Pinckney Plumbing and Heating, 109 S. G St., Aberdeen, $68,530. ELECTRICAL—AWARD: Lent's, Inc., Bremerton, $24,358. 2ND LOW: Thackeray Electric Co., Shelton, $24,865. HI BID: James Electric, 1504 Market, Chehalis, $28,700.

SP 2-8. Previous report 1-30

●■DIAL EQUIPMENT BUILDING— Aberdeen, Wash.

Bids will be opened 4 p.m., February 18, by Pacific Telephone and Telegraph Co., Seattle, for construction of a two-story, reinforced concrete addition to existing building at 2nd and I streets, Aberdeen. Plans by Decker, Christenson and Kitchin, architects,

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1411 4th Avenue Bldg., Seattle. Select list of bidders. Addition will house dial switching and long-distance equipment.

Planholders: Ed Lundgren, 809 N. K, Aberdeen; Grays Harbor Construction Co., 412 S. Park, Aberdeen; Andy Johnson, Scammel and Cherry, Aberdeen; Anderson Construction, 115 S. 9th, Tacoma; E. Goettling, 2921 S. J, Tacoma; A. G. Homann, Lacey; Lamb Construction, 506 S. F, Aberdeen; Del Guzzi Brothers, 1020 E. Front, Port Angeles; Absher Construction, Route 5, Box 134, Puyallup; Ketner Brothers, 419 St. Helens, Tacoma; Cascade-Olympic Construction, Route 2, Box 131, Shelton.

Brick veneer; 63'x120'; five-ply built-up roof, tar and gravel; rigid insulation in roof; linoleum, asphalt tile flooring; metal sash; drywall partitions, steel stud; some concrete partitions; fluorescent lighting; mechanical ventilation; oil-fired hot water heating. Restroom facilities are included in the plans. Building will be designed for one-story vertical future expansion and for future horizontal expansion.

PD 2-8. Previous report 1-22

BAPTIST CHURCH— Bellevue, Wash.

Preliminary plans are underway by Lawrence & Hazen, architects, 8626 Roosevelt Way, Seattle, for a church building at Lake Washington Blvd. and S.E. 11th, Bellevue, for First Baptist Church, Ralph E. Waud, pastor, 156 100th Ave. N.E., Bellevue.

PD 2-11. Previous report 1-3

BANK— Bellevue, Wash.

Preliminary plans are underway by McClelland & Osterman, architects, Skinner Bldg., Seattle, for a branch bank building on N.E. 8th near 104th St. N.E., in Bellevue, for Lincoln First Federal Savings and Loan Association, Seattle.

PD 2-12

▲CHURCH— Bellingham, Wash.

Complete list of bids received by Faith Lutheran Church, E. Maple and High streets, Bellingham, for construction of a 10,900 sq. ft., one-story, wood frame church on McCloud Road and the Northwest diagonal, Bellingham. Bids opened February 4 with five bids received. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle. BIDS: Walker & Florence, 319 E. Champion, $104,300; Pearson Construction Co., Box 337, $109,584; Dick Vellema, Lynden, $109,600; Nelson Construction Co., Box 514, Ferndale, $110,374; Anderson Construction Co., Sunset Bldg., $126,405. Of Bellingham except as noted. PD 2-8. Previous report 2-6

★CEILING FIXTURES—. Bellingham, Wash

Award to Service Electric Co., 2512 Meridian, Bellingham, $3,205, by Whatcom County Commissioners, Courthouse, Bellingham, for supplying louvred ceiling fixtures for 860 sq. ft. of space in the courthouse lobby at Bellingham. Bids opened February 7.

ET 2-11. Previous report 1-24

STUDENT UNION BUILDING ADDITION— Cheney, Wash.

(Estimated cost $180,000)

The Eastern Washington College of Education, Don S. Patterson, president, Cheney, plans to issue an $185,000 bond issue to finance construction of an addition to the student union building on the campus at Cheney. The addition will enlarge the bookstore and cafeteria, and provide office space for student publications, student radio station KEWC, and student offices as well as game rooms.

SC 2-7

BOWLING ALLEY— Colfax, Wash.

John Huber, committee chairman, Colfax, is investigating possibilities of forming a corporation to build a bowling center at Colfax. Huber has estimated cost of a building to house the center at $30,000, with eight completely equipped alleys obtainable for $43,000, with the expectation that automatic pinsetters would also be leased and installed.

MH 2-11

HIGH SCHOOL— Colfax, Wash.

A 20-mill levy and a $1,000,000 bond issue will be placed on the March 11 election ballot by Colfax District No. 300, Colfax, to finance construction of a 20-classroom (tentative) high school to be located on a site between Morton and Sumner streets in Colfax. Tentative plans, prepared by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane, include a science laboratory, library, music rooms, farm shop, industrial arts shop, gymnasium, cafeteria, kitchen and 900-person capacity auditorium. Brick facing is presently planned, with concrete block backing.

MH 2-11

FIRST BAPTIST CHURCH— Everett, Wash.

Working drawings have been started by Durham, Anderson & Freed, architects, 110 Denny Way, Seattle, for a 194'x119' irregular-shaped church at Pacific and Wetmore avenues, Everett, for First Baptist Church. Pastor is Carlton B. Goodwin, Lombard and Hewitt avenues, Everett.

The building will be composed of two-story and basement education wing with 1,000 person seating capacity; and a one-story and basement sanctuary with balcony, 650 person seating capacity. Precast concrete; flat built-up roof, concrete for education wing, wood on steel trusses for sanctuary; rigid insulation in roof; precast concrete channels on end with impregnated stone set in concrete, some Wilkeson stone; metal window walls; furred plaster ceiling in sanctuary; some expanded shale block partitions; colored glass; asphalt and vinyl tile. Present plans stipulate hot water and hot air heating, gas fired.

PD 2-8. Previous report 11-1

OFFICERS QUARTERS— Fairchild AFB, Wash.

Bids will be opened about March 13 with definite date to be set by addendum, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of two-story, 44'x230', non-combustible masonry Officers' Quarters building at Fairchild AFB; ENG-45-108-58-61. Specifications with above office. Completion time 420 calendar days.

Work will consist of 3,000 c.y. excavation; 920 sq. yd. sidewalks; 1,925' curbs; 4,200 sq. yd. asphaltic pavement; exterior electrical, water lines, sanitary sewer, storm sewer, top soil and seeding.

SP 2-7

TOWN HALL— Ferndale, Wash.

Bond election will be held with the March 11 election by Town Council, Town Hall, Ferndale, on a $65,000 bond issue to finance construction of a new town hall for Ferndale. Four mills will be levied at Ferndale to pay off the bond issue.

ET 2-12. Previous report 1-15

●BUILDING REMODELING— Fort Steilacoom, Wash.

Bids will be opened 3 p.m., February 24, by Garrett Heyns, director, Department of Institutions, Olympia, for remodeling of the Mental Health Research Institute building at the Mental Health Research Institute at Fort Steilacoom. Specifications with Loran A. Mercier, staff architect, Department of Institutions, Olympia.

SP 2-7

●SCHOOL ADDITION— Greenacres, Wash.

Bids will be opened 4 p.m., February 27, by Central Valley School District No. 356, Carl G. Lawson, secretary, N. 607 Pines Road. Opportunity, for construction of a frame and masonry six-classroom addition to the Greenacres Elementary School in Greenacres. Plans with Victor Louis Wulff, architect, W. 1526 Riverside, Spokane. $25 deposit. One general contract.

SP 2-8

GOLF COURSE, CLUBHOUSE— Lake Sammamish, Wash.

Construction will start the latter part of this month, under the supervision of Al Smith, owner, 2022 24th Ave. N., Seattle, on an 18-hole public golf course and driving range near the southeast shore of Lake Sammamish, Lake Sammamish State Park. Bids will be called early in March for furnishing and installing a sprinkler system for the development.

Bids will be taken about mid-April for construction of a clubhouse for which plans are being prepared by Paul Hayden Kirk, A.I.A. & Associates, architects, 615 Lakeview Blvd., Seattle. SP 2-12. Previous report 12-3

★CLUB HOUSE— Liberty Lake, Wash.

Award to Northwestern Construction Co., E. 1518 20th Ave., Spokane, $83,382, by Spokane County Commissioners, Courthouse, Spokane, for construction of a three-story, 40'x80' club house for the Liberty Lake golf course. Plans by Warren Cummings Kerman, architect, W. 1023 Riverside, Spokane.

SP 2-7. Previous report [illegible]

GYMNASIUM SEATING— Longview, Wash.

(Estimated cost $65,000)

Bids will be called late in February or March by Longview School District No. [illegible], Scott Milligan, superintendent, 28th and Lilac, Longview, for construction of gymnasium seating at the Mark Morris School in Longview. Plans are being prepared by McGuire & Muri, architects, 231 Broadway, Tacoma.

SP [illegible]

SWIMMING POOL— Longview, Wash.

(Estimated cost $225,000)

Architect will be selected by March 1 by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview, to prepare plans for an indoor-outdoor swimming pool to be built at the adjoining Mark Morris High School and Lower Columbia Junior College at Longview. Bids will be called late this year.

SP 2-7. Previous report 12-[illegible]

SCHOOL ADDITION— Longview, Wash.

(Estimated cost $80,000)

Charles W. Maxey, architect, 1411 14th, Longview, has been retained by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview, to prepare plans for a four-classroom addition to be constructed for Olympic Elementary School, 30th and Hudson, Longview. Bids will be called about May 1 by the district.

SP 2-7. Previous report 1-[illegible]

ELEMENTARY SCHOOL— Longview, Wash.

(Estimated cost $475,000)

Robert Newhall, architect, 1517 15th Ave., Longview, is preparing plans for the Columbia Heights Elementary School to be constructed at Parkview Drive and Columbia Heights Road in Longview. Bids will be called later this month or in March by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview.

SP 2-7. Previous report 12-[illegible]

SCHOOL MODERNIZATION— Longview, Wash.

Robert Newhall, architect, 1417 15th Ave., Longview, has been retained by Longview School District No. 102, Scott Milligan, superintendent, 28th and Lilac, Longview, to prepare plans for renovations at the Kessler school, 20th and Kessler, Longview. Bids will be called about May 1.

Architect Larry Rice, Myklebust Bldg., Longview, has also been retained by the district to prepare plans for improvements at the St. Helens, Columbia Valley Gardens and the R. A. Long schools.

SP 2-7. Previous report 1-[illegible]

JUNIOR HIGH SCHOOL— Longview, Wash.

Selection of architect will be made late in February or in March by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview, to prepare plans for a new junior high school at Longview.

SP 2-7. Previous report 12-[illegible]

▲IBM ROOM MODIFICATIONS— McChord AFB, Wash.

Seven bids received by U.S. Air Force Purchasing and Contracting Office, McChord AFB, for modifications to the IBM room at the base; Inv. No. 58-34. Bids opened February 6. TWO LOW BIDS: John Lade, 2[illegible] N. 36th, Tacoma, $5,173; Korsmo Bros., [illegible] Lake Grove S.W., Tacoma, $5,675. HI BID: Jardeen Bros., 1240 S. Sprague, Tacoma, $5,675.

SP 2-[illegible]

●BUILDING REMODELING, ENLARGING— Medical Lake, Wash.

Bids will be opened 3 p.m., February [illegible], by Supervising Engineer, Department of General Administration, 218 General Administration Bldg., Olympia, for the remodeling and enlarging of Pine Hall, Lake-

land Village, Medical Lake. Plans with above office. $10 deposit. SC 2-12

★HIGH SCHOOL ADDITION—
Mercer Island, Wash.

Awards recommended by Mercer Island School District No. 400, Box 215, Mercer Island, for construction of a one-story multi-purpose building addition to the High School at 4136 92nd S.E. on Mercer Island. Plans by Bassetti & Morse, architects, Tower Bldg., Seattle. Recommended contracts include alternates and negotiated changes. AWARDS —GENERAL: John Hopkins Co., Box 247, Mercer Island, $121,538. MECHANICAL: Bellevue Plumbing and Heating, 10149 Main St., Bellevue, $34,766. ELECTRICAL: City Electric and Fixture Co., 433 8th Ave. N., Seattle, $18,760.
SP 2-11. Previous report 1-23

▲CLINIC— Moses Lake, Wash.

Five general, three mechanical and three electrical contract bids received by Professional Center of Moses Lake, Inc., c/o Donald R. Hollingbery, architect, 1551 Highway 10, Moses Lake, for construction of a medical clinic on Ivy Ave. between 3rd Ave. and B St. in Moses Lake. This is the first structure of a proposed medical and dental center to be constructed. Bids opened February 5. BIDS—GENERAL: Fairbanks Construction Co., 308 Gumwood, $51,956; Floyd Swenson Construction Co., E. 903 Fairbanks Drive, $51,925; Olympic Construction Co., Westlake, $54,711; Columbia Construction Co., 1621 Belair, $54,856; L & S Construction Co., W. 1614 Broadway, $55,293. MECHANICAL: Leonard Plumbing Co., W. 1416 Pheasant Drive, $12,685; Carrillo Plumbing and Heating, E. 315 Commercial, $13,422; Grant County Plumbing and Heating, Box 1567, $14,926. ELECTRICAL: Don H. Swartz, Inc., E. 114 Broadway, $6,200; Basin Electric, E. 225 3rd, $7,313; Grieb Electric, E. 522 3rd, $7,846. All of Moses Lake. SC 2-12. Previous report 1-29
Professional Center

●DUPLEX— Neah Bay, Wash.

Bids will be opened 2 p.m., March 10, by 13th Coast Guard District, room 922, 619 2nd Ave., Seattle, for construction of frame duplex dwelling at U.S. Coast Guard Cape Flattery Light Station, Tatoosh Island, Neah Bay, Wash.; FS-1709. Plans with above office. SP 2-12

★GRADE SCHOOL— Onalaska, Wash.

Award of contract to J. J. Flaskerud, 2151 Delaware St., Longview, on his combined basic bid of $312,974, has been recommended by Onalaska School District No. 300, Lewis County, Wilbur Stone, clerk, Administration Office, Onalaska, for construction of a 14-classroom and multipurpose room elementary school building in Onalaska. The formal award is pending state approval. Plans by McCoy & Bradbury, architects, 7007 Highway 99, Vancouver. WB 2-7. Previous report 1-31

●■ FOUNDATION REPLACEMENT—
Paine AFB, Wash.

Bids will be opened 2:30 p.m., February 27, by U.S. Air Force, Procurement Office, Paine AFB, for replacement of foundations for Bldg. No. 521 at the base; Inv. No. 45-602-58-38, Proj. No. PAN 65-57 (Paine). Specifications with above office. Bid bond 20%.

Planholders: Ballard Contractors, Inc., 4601 6th N.W., Seattle; H. O. Seiffert Co., Box 911, Everett; E. F. Shuck Construction Co., 535 Pontius Ave., Seattle; Gill Construction Co., 5117 25th N.E., Seattle; E. C. Rasmussen Construction Co., 7720 E. Greenlake Way, Seattle; Metropolitan Construction Co., 1008 Broadway, Everett; Burfitt Construction Co., 1445 W. 56th St., Seattle; Roy E. Rudd, Box 835, Everett; Jack Fast, 22 Etruria, Seattle; General Industries, Inc., 106 Main St., Edmonds; Lindbrook Construction Co., 21016 Five Corners Road, Edmonds. HH 2-7

●■ ROOF REPAIR— Paine AFB, Wash.

Bids will be opened 2 p.m., February 20, by U.S. Air Force, Procurement Office, Paine AFB, for installation of new roofs and flashings on Bldg. Nos. 219 and 307 at the base; Inv. No. 45-602-58-37, Proj. No. PAN 62-7 (Paine). Specifications with above office. Bid bond 20%.

Planholders: AAA Roofing and Siding Co., 12525 Roosevelt Way, Seattle; Associated Roofing and Metal Corp., 3918 6th Ave. N.E., Seattle; Henry Scholten Roofing, Route 2, Lynden; Independent Sheet Metal Corp., 1723 Westlake Ave. N., Seattle; Deming Roofing and Sheet Metal Co., 1319 W. Nickerson St., Seattle; The H. O. Seiffert Co., 2400 Hewitt Ave., Everett; Metropolitan Construction Co., 1008 Broadway, Everett; Fairmount Lumber Co., Everett; Acme Construction Co., 2223 Broadway, Everett; Holm Roofing and Siding Co., 2918 Wetmore, Everett; Nieman & Perry Roofing Co., 1909 16th, Everett; Commercial Sheet Metal, 4213 Rucker, Everett; Dickey & Clauson, 5200 15th N.W., Seattle; Howard C. Sheppard, 1723 Westlake N., Seattle; Western Roofing and Siding, 10032 4th Ave. S.W., Seattle; Gill Sheet Metal Shop, 9211 Delridge Way, Seattle.
HH 2-7

●LABORATORY ANNEX—Pullman, Wash.

Bids will be opened 2 p.m., February 21, by Board of Regents, 303 Administration Bldg., Washington State College, Pullman, for construction of an open shed one-story 37'x200' annex to a cattle feeding laboratory at WSC in Pullman. Plans with Philip E. Keene, 305 Services Bldg., WSC, Pullman.
MH 2-11

■ POULTRY PLANT STRUCTURES—
Pullman, Wash.

Additional planholders announced for construction of eight frame buildings, two of which will be two-story with basement and the others one-story, to comprise the poultry plant for Washington State College in Pullman. Bids will be opened 2 p.m., February 19, by Board of Regents, 303 Administration Bldg., WSC, Pullman. Plans with Funk, Murray & Johnson, architects, 524 W. 4th Ave., Spokane.

Additional planholders—GENERAL: Warner & Brown, N. 2904 Madelia; H. Halvorson, Box 6, Yardley; Spilker & Son, Route 5; Ruud Construction Co., Realty Bldg.; C & S Builders, 508 Dexter, Pullman; Crescent Construction Co., E. 6022 Mansfield, Spokane; Dunham Bros., Box 42, Moscow, Idaho. MECHANICAL: Arnold & Jeffers, Box 2192; H. D. Powell, 612 S. Main, Moscow; W. R. O'Rourke, 339 S. 2nd, Walla Walla; Senna Service, N. 732 Napa; James Smyth Plumbing and Heating, N. 216 Division. ELECTRICAL: Brown-Johnston, Inc., N. 118 Lincoln. Of Spokane unless noted.
MH 2-11. Previous report 2-5

■ ELEMENTARY SCHOOL ADDITION—
Redondo, Wash.
(Estimated cost $120,000)

Planholders announced for construction of a 7,200 sq. ft. five-classroom addition to Lakeland Elementary School at Redondo. Bids will be opened 8 p.m., February 20, by Federal Way School District No. 210, Ken-

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neth C. Jones, superintendent, Redondo. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle.

Planholders: Burien Construction Co., 4126 S.W. 106th; Korsmo Brothers, 5944 Lake Grove Ave. S.W., Tacoma; Perry Construction Co., 2220 Peasley Canyon Road; Federal Way; C. E. Skinner, Box 706, Orting; United Construction Co., 3927 Findlay St.; Gill Construction, Inc., 5117 25th N.E. Of Seattle except as noted.

PD 2-12. Previous report 2-4

CHURCH— Renton, Wash.

Working drawings are nearing completion by Robert F. Rathjen, architect, 213 Lake St. S., Kirkland, for two-level, 86'x52' (approximately) multi-purpose church building, for Highland Community Church, Wallace R. Wilson, pastor, on a site at 10th and K streets, Renton Highlands, near Renton. This is the first unit of the proposed church and will include a temporary sanctuary, a 200-person capacity Sunday school, a social room and a multipurpose room. The church will provide a construction superintendent.

Wood frame; concrete slab-on-grade; brick veneer, cedar siding, some Welchboard (or equal) exterior; pitched, flat built-up roof, rigid insulation on roof; glued laminated beams; aluminum sash; drywall, plaster partitions; asphalt tile, cork tile flooring; fluorescent, incandescent lighting; gas-fired forced warm air heating. Construction will be underway in the near future. PD 2-8

● HEATING, VENTILATION ALTERATIONS— Richland, Wash.

Bids will be opened March 10 by Atomic Energy Commission, Box 550, Richland, for heating and ventilation alterations in a plant area building at Richland. Specifications with above office. Work consists of insulating, painting and electrical work for 21 heating and ventilating units. SP 2-12

● CHLORINE STORAGE FACILITY— Richland, Wash.

Bids will be opened March 4 by Atomic Energy Commission, Box 550, Richland, for construction of a chlorine storage facility at the Hanford Works, Richland, including construction of a 24'x50' prefabricated steel building with raised concrete floor and loading dock. Specifications with above office.

Equipment to be installed includes an inside monorail system of three ton capacity and an outside loading crane. Miscellaneous electrical work is included. SP 2-8

RESTAURANT EXPANSION—Seattle, Wash.

Preliminary drawings are underway by George W. Stoddard-Huggard & Associates, architects, 1120 Harvard, Seattle, for a new and expanded 6,000 sq. ft. restaurant with a 60' front, at 1120 2nd Ave., in the new National Bank of Commerce annex, on which bids will be called in early February. Expansion will be underway when annex construction permits. PD 2-7

■ OFFICE BUILDING— Seattle, Wash.
(Estimated cost $100,000)

Additional planholders announced for construction of a one-story and partial basement, L-shaped, wood frame office building at 4000 Aurora Ave., Seattle, for Preferred Acceptance Corporation, owners. Bids will be opened 3:30 p.m., February 20 in the office of Jones, Lovegren, Helms & Jones, architects, Republic Bldg., Seattle.

Additional planholders: Strand, Inc., 1801 N. 34th; Jentoft & Forbes, 927 W. 46th. Of Seattle. PD 2-18. Previous report 1-31

● CHURCH BUILDING ADDITION— Seattle, Wash.

Bids will be opened 2 p.m., March 4, in office of John Graham & Co., architects, 1426 Fifth Avenue Bldg., Seattle, by Lake Burien Presbyterian Church, S.W. 151st and 14th S.W., Seattle, for construction of a wood frame two-level 4,600 sq. ft., Sunday School wing addition and a one-level and basement, 5,800 sq. ft. fellowship hall addition to existing church, on the above site. Existing old church building and classroom building are to be removed from the site as part of the contract. Basement space for boiler room only will be included in Sunday School wing. Plans with the architects. $25 deposit each for general, mechanical and electrical contracts. Separate contracts.

Cedar siding, brick veneer exterior; asbestos shingle roofing; metal sash; blanket insulation in ceiling; one-hour construction drywall partitions; vinyl, asphalt tile flooring; oil-fired hot water and boiler heating. PD 2-8. Previous report 2-5

SYNAGOGUE— Seattle, Wash.
(Estimated cost $750,000)

Preliminary sketches are completed and preliminary drawings will soon be started by Detlie & Peck, architects, Securities Bldg., and Marcus B. Pritica, architects, Palomar Bldg., Seattle, for a 1,000-person capacity synagogue at 16th Ave. and E. Pike St., Seattle, for Congregation Temple De Hirsch, 1424 15th Ave., Seattle. A supplemental fund-raising drive is underway. Sol Esfeld is building fund chairman and Frank Newman is building construction chairman. PD 2-8. Previous report 12-11

TRI-PLEX— Seattle, Wash.

Construction is underway by D. B. Strathy, owner-contractor, 4714 E. 178th, on a 4,200 sq. ft., two-level, tri-plex apartment on the corner of 14th N.E. and E. 125th, Seattle. Plans by Lawrence & Hazen, architects, 8626 Roosevelt Way, Seattle.

Wood frame: 1" on 12" pitched built-up roof, asphalt shingles; some brick veneer, cedar siding exterior; aluminum sash, some glass stopped in wood; drywall partitions; hardwood flooring; batt type insulation in ceiling, between floor levels; aluminum insulation in walls; wood cabinets in kitchen; formica counter tops; brick fireplaces with Arizona stone slabs; electric baseboard heating. Brick planter boxes will be at the front of building. A separate three-car garage is included in plans. PD 2-8

● ■ UNITARIAN CHURCH— Seattle, Wash.

Bids will be opened 4 p.m., February 25, in office of Paul Hayden Kirk A.I.A. & Associates, architects, 615 Lakeview Blvd., Seattle, for construction of a two-level, 15,000 sq. ft. chapel and church school building on the southeast corner of 35th N.E. and E. 68th, Seattle, for University Unitarian Church, 4555 16th N.E., Seattle. One general contract. $25 deposit. The church school portion of the building will be connected to the chapel by a covered gallery.

Planholders: O. B. Daniels & Son, 2201 Sunset Highway S.E., Mercer Island; C B I Construction Co., 11115 7th N.W.; Nels Hedin & Co., 2312 Federal; Wick Construction Co., 720 N. 35th; Hainsworth Construction Co., 3028 Western Ave.; B. F. Turnbull, 4201 Leary Way; C & R Builders, 1619 8th Ave. N.; Jentoft & Forbes, 927 W. 46th; Riley Pleas, 522 19th N. All of Seattle, except as noted.

Chapel will have 400-person capacity; wood frame; shingled pitched roof, glued laminated beams, 3" t&g decking; stucco exterior; glass stopped in wood, some operating aluminum windows; acoustical plaster ceilings, some acoustical plaster walls; vertical hemlock 1" t&g on walls; carpeting; gas-fired hot air heating.

The two-story, 51'x70' church school will be wood frame; post and beam; flat built-up roof; 2"x6" t&g decking; 1"x4" bevel lap siding; batt insulation in walls, drywall partitions; glass stopped in wood, some aluminum operating sash; vinyl asbestos flooring, incandescent lighting, some fluorescent lighting; same heating as chapel. A decorative plastic screen will be placed between the chapel and the outer court. Plans include an asphaltic concrete parking area for 50 cars. PD 2-8. Previous report 1-31

SEATTLE PUBLIC LIBRARY—Seattle, Wash.

Bids will be called this spring by City of Seattle, for construction of the five-story and basement, 167,000 sq. ft., reinforced concrete Seattle Public Library (main branch) building to be located at 4th Ave. and Madison in Seattle. Working drawings are nearing completion by Bindon & Wright, architects, Hoge Bldg., Seattle, and Decker, Christenson & Kitchin, associate architects, 1411 Fourth Avenue Bldg., Seattle.

The building is designed with two-level basement for double tier bookstacks. First floor (4th Ave.), second floor and third floor (5th Ave. level) are the public floors, and will have plaster partitions. Fourth floor accommodates the catalog, order and bindery divisions. Fifth floor is administrative and includes in addition to private offices, branch stacks and lunchroom, with small self-service kitchen for staff use. Concrete block partitions will be used in service areas. All floors are laid out on a modular basis to provide flexibility. The two principal entrances, on 4th and 5th avenues, are accessible without steps, and approaches will be surfaced with non-slip terrazzo. Vertical transportation will be handled by means of escalators between the three main floors, supplemented by one passenger and one service elevator, both automatic, which run th full height of the building. Although the two lower floors occupy the major portion of the block, the perimeter walls will set back sufficiently to provide interesting landscape features visible from within as well as from the streets. Certain areas within the building and in landscaping areas will incorporate features of arts such as sculpture and murals, to be coordinated with Seattle Art Commission. The new structure will provide storage for 970,000 volumes. Metal stacks for this purpose may be under separate contract. At the southeast corner of the site, provision is made for limited parking and truck delivery to a loading dock, adjacent to the service elevator. Contract for furniture, including chairs, tables, specialty items, draperies, will be bid separately after general contract is awarded. Elevators and escalators may be included in general contract, or may be bid separately.

Construction will include the following: concrete roof slab, concrete joist construction with steel pans; flat built-up roof with rigid insulation on roof and terrace decking, exterior facing of Mo-Sai veneer supplemented in certain areas with granite or marble; aluminum windows; window glazing with gray heat resistant glass, with drapes and vertical blinds for additional sun control; vinyl tile flooring; suspended acoustical tile ceilings; lighting and ventilating units set on modular grid; mechanical ventilation with provision for installation of air conditioning or cooling at a later date. The

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building will be constructed so that three additional stories can be built after twenty years if necessary.
PD 2-8. Previous report 11-14

★**WAREHOUSE, SALES OFFICE BUILDING—** **Seattle, Wash.**

Additional sub-awards announced by Mid Town Investment Co., 414 Pontius, Seattle, for construction of a 37,800 sq. ft. warehouse, sales and office building in the 1100 block of W. Ewing St. on the south side of Lake Washington Ship Canal. Plans by Samuel G. Morrison, architect, Douglas Bldg., Seattle.

Additional awards: Fentron Industries, Inc., 2801 Market St., steel sash; Deming Roofing and Insulation Co., 1319 W. Nickerson, sheet metal; Fibreglas Engineering and Supply Co., 1248 6th Ave. S., acoustical tile; E. W. Waldal Painting Co., 4015 Stone Way, painting; Rossoe Manufacturing Co., 413 Fairview Ave. N., heating. All of Seattle.
PD 2-11. Previous report 12-20

★**STORE REMODELING—** **Seattle, Wash.**

Award to Baugh Construction Co., 922 Poplar Place, Seattle, $36,389, by Leslie-Hughes, 600 Pine St., Seattle, for remodeling 2,800 sq. ft. of basement area into a retail garment salesroom at the store. Plans by Bittman & Sanders, architects, 301 Securities Bldg., Seattle. SP 2-11. Previous report 1-24

INDUSTRIAL SITE— **Seattle, Wash.**

A major oil company is considering acquisition of a site on the nine-acre waterfront industrial area on Shilshole Bay at Vernon Place in the Ballard district, for the purpose of constructing a marina. Development of the nine-acre site which has 800' of waterfront and 800' of railway facilities, is under supervision of Nickum, Lamont & Fey, architects and engineers, 71 Columbia St., Seattle. Plans are already underway by the above architects for an industrial warehouse and office in the above area, for Davis Stimson, president, Stimson Mill Co., 2116 Vernon Place.
PD 2-11. Previous report 9-28

★**ROOM ADDITION—** **Seattle, Wash.**

Award to Hugh S. Ferguson Co., 1927 1st Ave. S., Seattle, $4,156, by Boeing Airplane Co., Plant 2, Seattle, for construction of a dust free room in Annex D, Plant 2, Seattle.
SP 2-11. Previous report 9-26

★**HEATING—** **Seattle, Wash.**

Award to University Plumbing and Heating Co., 3941 University Way, Seattle, $16,-336, by Boeing Airplane Co., Plant 2, Seattle, for heating of Warehouse No. 3 at the Seattle Army Terminal, Seattle.
SP 2-11. Previous report 10-5

★**BUILDING ADDITION—** **Seattle, Wash.**

Award to T. W. Traverso Construction Co., 11180 E. Marginal Way, Seattle, $8,492, by Boeing Airplane Co., Plant 2, Seattle, for construction of a mechanical equipment unit hydraulics system laboratory in the 201 Bldg., across the street from the main flight test center, at Plant 2.
SP 2-11. Previous report 1-16

★**ELECTRIC SERVICE—** **Seattle, Wash.**

Award to Fischbach & Moore, Inc., 3201 Fremont, Seattle, $5,195, by Boeing Airplane Co., Plant 2, Seattle, for furnishing and installing electrical wiring for various machines in Warehouse No. 55, Bldg. No. 3, Seattle Army Terminal, Seattle.
SP 2-11. Previous report 1-25

★**HEATING PLANT—** **Seattle, Wash.**

Award to Brown Engineering Co., 812 Adams St., Seattle, $964, by King County Commissioners, 402 County City Bldg., Seattle, for gas conversion unit for boiler at Enumclaw fieldhouse.
SP 2-11. Previous report 2-5

★**NORTHWEST JUNIOR HIGH SCHOOL—** **Seattle, Wash.**

Awards announced by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of the two-level Northwest Junior High School at 15th Ave. N.W. and W. 95th St., Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARDS—GENERAL: Wick Construction Co., 720 N. 35th, Seattle, $1,436,339. MECHANICAL: Wenzler & Ward Plumbing and Heating, Inc., 2109 Western, Seattle, $383,-405. ELECTRICAL: Northwest Electric Co., 420 Yale N., Seattle, $161,054.
SP 2-11. Previous report 2-6

TEST FACILITY— **Seattle, Wash.**

Project cancelled by Boeing Airplane Co., Plant 2, Seattle, for construction of a rain erosion test facility at Plant 1.
SP 2-12. Previous report 8-30

★**FIRE PROTECTION SYSTEM—** **Seattle, Wash.**

Award to Viking Automatic Sprinkler Co., 1120 8th Ave. S., Seattle, $19,758, by Boeing Airplane Co., Plant 2, Seattle, for furnishing and installing a fire protection system extension in the service center area at the north end of Boeing Field, Seattle.
SP 2-12. Previous report 11-21

★**WAREHOUSE ADDITION—Seattle, Wash.**

Award to Century Construction Co., 401 W. Galer, Seattle, by Keller Supply Co., 3209 17th W., Seattle, for construction of an 8,300 sq. ft. second floor addition to the existing warehouse, above address. Plans by W. G. Brust & Associates, architects, 906 Republic Bldg., Seattle. Century submitted a low bid of $39,000 (not including elevator) for the February 4 opening.
SP 2-12. Previous report 2-6

★**RESIDENCE—** **Seattle, Wash.**

Upon completion of financial arrangements, contract will be awarded to Taylor & Goss, Inc., 2718 Elliott Ave., Seattle, in the amount of $22,000, by Floyd E. Fancher, owner, for construction of a 3,195 sq. ft. two-level residence on Shorecrest Drive, south of Seattle. Plans by Wortman & Wilkins, architects, 818 2nd Ave., Seattle.
SP 2-12. Previous report 2-7

●**MULTIPURPOSE BUILDING—** **Spokane, Wash.**

(Estimated cost $120,000)

Bids will be opened 2 p.m., March 5, by Most Rev. Bernard J. Topel, Catholic bishop of Spokane, in the Chancery Bldg., Spokane, for construction of a two-story multipurpose building which will be the first unit of the St. Thomas More parish school and church to be located east of Wall and Carolina Way about a mile north of Francis, in Spokane. Plans will be issued to a select list of bidders after February 17 by Henry J. Swoboda, architect, N. 6605 Division, Spokane. The structure will contain on the upper level, a gymnasium-auditorium which will be used temporarily as a church, and on the lower level, a cafeteria and social hall which can be divided in classrooms.

Pan-type construction with brick cavity walls for the main floor, pre-cast concrete rigid frame, pre-cast concrete roof panels, built-up roofing, colored concrete floors with some vinyl asbestos tile, brick, painted concrete, and wood paneling on interior walls, aluminum curtain walls with insulated panels on the lower level, incandescent lighting, hot water heating system, gas fired, with forced air combination.
DC 2-11. Previous report 1-17

CHURCH— **Spokane, Wash.**

(Estimated cost $33,000)

Bids will be called about March 1, 1958, for construction of the one-story and no basement, 2,300 sq. ft., solid masonry Christion Reformed Church at Francis Ave. and Indian Trail Road in Spokane. Plans by Victor Louis Wulff, architect, W. 1525 Riverside, Spokane. Plans will be issued to a select list of contractors.
SP 2-12. Previous report 2-6

▲**PARK BUILDINGS, GRANDSTAND—** **Spokane, Wash.**

Bids received by Spokane County Commissioners, Courthouse, Spokane, for construction of utility buildings and grandstand for the new 10,000-seat ball stadium to be located at the Interatate Fairgrounds east of the Spokane city limits. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Bids opened February 11. LOW GENERAL: Troy B. Hood, S. 222 Pines Road, Opportunity, $308,000; Henry George & Sons, Hutton Bldg., Spokane, $319,613; Sceva Construction Co., N. 2928 Madelia, Spokane, $338,483.
SP 2-12. Previous report 2-8

★**GEORGE CURTIS SCHOOL ADDITION— Tacoma, Wash.**

Awards announced by University Place School District No. 83, 2708 W. Grandview, Tacoma, for construction of a four-classroom and science laboratories addition to the George Curtis Junior High School building at 8901 W. 40th St., in Tacoma. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma. AWARDS—GENERAL: Korsmo Bros., 5944 Lake Grove S.W., Tacoma, $66,571. MECHANICAL: H-K Western, Inc., 1714 S. Tacoma Way, Tacoma, $27,010. ELECTRICAL: Jardeen Electric, 1232 S. Sprague, Tacoma, $13,065.
SP 2-8. Previous report 1-11

■**METHODIST CHURCH—Vancouver, Wash.**

Planholders announced for construction of 2,300 sq. ft. one-story and full daylight basement church starter unit for St. Paul Methodist Church at 8100 N.W. 9th St. in the Lake Shore district. Bids will be opened 4 p.m., February 17, in office of Donald E. Eby, architect, 215 Adams Bldg., Vancouver.

Planholders: Erick Heikkala, 4512 Kauffman; Dick Moll, 415 Shrevesport Drive; D. F. Williamson, 108 N. Carl; Robert Taylor, 2204 Wintler Drive; Ralph Dahl, Box 63; Larry Pratka, 708 W. 53rd Ave.; Roy Wood, Route 5, Box 1052; Larry O. Collins, 7017 Highway 99; Oscar Luokkala, 319 N.W. 79th; Charles White Construction Co., 210 E. 18th Ave. All of Vancouver.
WB 2-7. Previous report 1-28

BAPTIST CHURCH— **Vancouver, Wash.**

Working drawings are scheduled to be completed about May by Donald E. Eby, architect, 215 Adams Bldg., Vancouver, for a new First Baptist Church in Camas. The building will contain a sanctuary seating 300 persons, classrooms and a daylight base-

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ment. It will be masonry construction with brick veneer exterior and glued laminated arches. WB 2-7

MOTEL— Walla Walla, Wash.
(Estimated cost $112,000)

Excavation and concrete work on the basement have been completed and work is in progress on the first floor structure of the two-story 30-unit motel at 2nd and Cherry streets in Walla Walla, being constructed for Mid-Town Motel Corp. A permit was recently issued for the plumbing work which will be handled by Dopps & Banks, Inc., 603 W. Lenox Ave., Yakima, under a $15,000 contract. General contractor is Pacific Development Corp., Russell D. Konrad, executive vice president, Portland. Completion is scheduled for June 1.
SC 2-12. Previous report 1-30

★BANK BRANCH— Walla Walla, Wash.

Award to O. D. Keen Construction Service, 515 N. Bellevue, Walla Walla, by Baker-Boyer National Bank, 2nd and Main streets, Walla Walla, for construction of the Eastgate branch bank on the northwest corner of E. Isaacs Ave. and Cedar. Amount of Keen's bid was not disclosed by Dorsey S. Baker, president of the bank. Bids were opened February 7. Other bidders were E. Chuck Mardis, A. Ritchie Construction Co., Henry Gross and Lewis Hopkins Co.

One-story, 3,900 sq. ft. building. Special features will include luminous ceiling, drive-in window, and large amount of glass.
DC 2-12. Previous report 1-25

▲CATHEDRAL ADDITIONS—Yakima, Wash.

Six bids received by Roman Catholic Diocese of Yakima, Most Rev. Joseph P. Dougherty, bishop, Liberty Bldg., Yakima, for construction of a 2,500 sq. ft. addition to St. Paul's Cathedral, 12th and Chestnut streets, Yakima. Plans by Hargis & Goldsworthy, architects, Miller Bldg., Yakima. Bids opened February 5. TWO LOW BIDS: Jake Leingang, 3804 Summitview Ave., Yakima, $109,991; Al Kokenge, 621 S. 36th Ave., Yakima, $112,258. HI BID: Hugh Templeton, 9th Ave. and Fruitvale Blvd., Yakima, $134,600.
IG 2-7. Previous report 1-30

●DETENTION HOME— Yakima, Wash.

Bids will be opened for the second time at 2 p.m., February 26, by Yakima County Commissioners, Courthouse, Yakima, for construction of the one-story, 8,682 sq. ft., masonry Yakima County Juvenile Detention Home at 18th Ave. and Jerome St. in Yakima. Plans with Cowan & Paddock, architects, Larson Bldg., Yakima. $50 deposit. Separate bids on general, mechanical and electrical contracts.

Bids were previously opened December 18 and subsequently rejected as too high (only $200,000 is provided in the budget for the construction). Several revisions have been made in plans, changes which earlier were considered to affect security and capacity of the detention facility but which have now been accepted. Approximately $18,000 will be saved by the revisions which include the following: structural floors changed to concrete in girls' and boys' wings; acoustical tile ceilings eliminated in dining room and activity room; windows changed; asphaltic concrete instead of concrete sidewalks.
IG 2-8. Previous report 1-16

★METHODIST CHURCH— Yakima, Wash.

Award to Paul Cook, 307 Crescent Drive, Yakima, no amount released, by Methodist Church Wesley Memorial, Rev. Blanton, pastor, 5411 Englewood Drive, Yakima, for construction of a new church in Yakima. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima.

Buildings included will be constructed on a campus-type plan, with two buildings to be constructed initially and additional buildings later. First two buildings will involve a vertical plank and cement block educational unit with classrooms and a sanctuary of the same type construction. The 350-sea sanctuary will have a wing extension containing study, choir room, parlor. Concrete floors; finished paneling interiors; oil fired furnaces. IG 2-12. Previous report 2-6

IDAHO

HOSPITAL— Arco, Idaho

Bond issue for $80,000 was approved in the February 4 election held by Butte County Commissioners, Courthouse, Arco, to finance construction of a new 10-bed hospital on the hill overlooking Arco. Architects for the project are C. A. Sundberg & Associates, 111 E. 16th, Idaho Falls.
SC 2-11. Previous report 1-9

SACRED HEART SCHOOL— Boise, Idaho

Plans will be completed later in February by Andrew D. Bowles, architect, 140 S. 11th, Boise, for the eight-classroom and allpurpose room Sacred Heart School to be constructed at Cassia and Latah streets in Boise, for Catholic Church, Boise Diocese, James H. Byrne, bishop, Boise. SP 2-7

▲STATE BUILDING ADDITION— Gowen Field, Idaho

Seven bids received by Arthur Warren, commissioner of public works, 432 Capitol Bldg., Boise, for alterations and addition to surplus property building No. 539 at Gowen Field. Plans by Wayland & Cline, architects, Idaho Bldg., Boise. Bids opened February 6. TWO LOW BIDS: D. E. Jensen Construction Co., 3225 Crescent Rim Drive, Boise, $7,400; Babbitt Construction Co., Box 4038, Boise, $7,841. HI BID: K. H. Matthews, 120 Fort, Boise, $8,355.
SP 2-8. Previous report 2-4

LDS WARD ADDITION—Idaho Falls, Idaho

Working drawings are nearing completion by Harold E. Collard, architect, 319 C. St., Idaho Falls, on an addition to LDS 4th Ward in Idaho Falls, for LDS Church Building Committee, 125 N. Main, Salt Lake City, Utah. GH 2-11

APARTMENT BUILDING— Idaho Falls, Idaho
(Estimated cost $150,000)

Construction will be underway as soon as financing has been approved by A. W. Brunt and Earl Brunt, owners-builders, 248 Broadway, Idaho Falls, on a two-story, U-shaped, brick 10-unit apartment building with garages to be located on a triangular strip bordered by S. Ridge, W. 13th and Pine streets in Idaho Falls. Plans by Harold E. Collard, architect, 319 C St., Idaho Falls.
GH 2-11

★MEDICAL CENTER— Kellogg, Idaho

Award to Johnson-Busboom-Rauh, N. 601 Cedar, Spokane, $167,260 ($146,367 basic plus alts.), by Gil Camm, manager of the Kellogg Medical Clinic, Kellogg, for construction of an 8,000 sq. ft. clinic building on U.S. Highway No. 10, opposite the new hospital, on the west edge of Kellogg. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Bids opened February 4. 2ND LOW BID (basic): McKim & Kaiser, Wallace, $151,445. 3RD LOW: Hanson & Parr, W. 315 Boone Ave., Spokane, $157,200. HI BID: Hilton-Lawrence, E. 41 Gray, Spokane, $178,300. SC 2-7. Previous report 1-22

RESIDENCES— Lucky Peak Dam, Idaho

Bids will be opened about March 13 with definite date to be established by addendum, by Corps of Engineers, Walla Walla district, Bldg. 602, City-County Airport, Walla Walla, for construction of two one-story, 1,100 sq. ft., wood frame, three-bedroom operators' residences at Lucky Peak Dam, near Boise, Idaho; CIVENG-45-164-58-38. Plans with above office. Completion time 150 calendar days.

Included are warm air furnaces; septic tanks and tile fields; plumbing, electrical and painting work. SP 2-11

CHURCH ADDITION— Marsing, Idaho

Working drawings are nearing completion by Harold E. Collard, architect, 319 C St., Idaho Falls, for an addition to the LDS church in Marsing, for LDS Church Building Committee, 125 N. Main, Salt Lake City, Utah. GH 2-11

●TRAINING BUILDING, UTILITIES— Mountain Home AFB, Ida.

Bid opening established as 2 p.m., March 13, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of a 10,000 sq. ft. tilt-up concrete and block masonry target intelligence training building and related facilities at Mountain Home AFB. ENG-45-164-58-29. Specifications with above office.

Roof structure will consist of open web joist, steel roof decking, rigid insulation and 5-ply built-up roofing. Interior electrical services will consist of lighting and service for mechanical features; mechanical features to consist of high temperature water heating system, pumping system, and refrigerator type air conditioning system. Exterior feature will consist of electric, water and sewer systems; underground high temperature water system; asphaltic drives and parking area; concrete sidewalks; lawn and dryland grass seeding.
SP 2-8. Previous report 1-4

ELEMENTARY SCHOOL— New Plymouth, Idaho

A citizens committee has been formed at New Plymouth to petition voters for a bond issue to finance construction of a 12-classroom elementary school at New Plymouth. A $275,000 bond issue was defeated last November and again in December. Plans by Charles W. Johnston, architect, 13 N. 8th St., Payette. SC 2-12. Previous report 12-11

LDS CHAPEL— Salmon, Idaho

Plans will be complete about April 1 by Fred L. Markham, architect, 45 N. University Ave., Provo, Utah, for a one-story and no basement, 22,000 sq. ft., solid masonry two-ward stake house building at Salmon, for LDS Church Building Committee, 125 N. Main, Salt Lake City, Utah.

Concrete footings and foundation; concrete slab floors; solid masonry walls; brick exterior, block interior wall finish.
GH 2-11. Previous report 1-21

MONTANA

RADIO-TELEVISION OFFICE BUILDING— Billings, Mont.
(Estimated cost $500,000)

Construction is underway on a four-story and basement, 37,000 sq. ft. office building at 3rd Ave. N. and 32nd St. in Billings, to house facilities of KOOK and Television Station. Basement and foundation work will be completed about March 1, after which remainder of structure will be built. Plans by Nickum, Lamont & Fey, architects and engineers, 71 Columbia St., Seattle.

Cantilevered structural steel frame; built-up roof, fiberglass insulation on roof, also in sound rooms, control rooms; pre-cast decorative concrete exterior; steel sash; reinforced concrete slabs on steel joists; vinyl asbestos, rubber tile floorings; one automatic elevator; combination heating and air-conditioning, similar to Carrier air conditioning system. Cement concrete parking areas will provide for visitors and employees parking.
PD 2-11. Previous report 12-14

★OFFICE BUILDING— Billings, Mont.

Award to Hitz Construction Co., 2111 4th Ave. N., Billings, $300,000, by Midland Implement Co., Inc., 2303 Montana Ave., Billings, for construction of a one-story 60,000 sq. ft. building to house offices, service facilities and storage warehouse on a five-acre tract in the Northern Pacific industrial site west of Billings. Plans by Cushing-Terrell & Associates, architects, 1333 Airport Road, Billings. EE 2-11

PAROCHIAL SCHOOL, CHAPEL— Billings, Mont.

Plans are being prepared by Joseph Gates, architect, Midland National Bank Bldg., Billings, for a parochial school and chapel to be constructed at 28th St. W. and Lewis Ave. in Billings, for Trinity Lutheran Church, Rev. Paul M. Freiburger, pastor, 537 Grand Ave., Billings. Construction is planned in

four stages, with the first stage to consist of a school section of three of four classrooms. Bids on the first unit will be called about May so that construction can be completed by September. EE 2-12

YWCA BUILDING ADDITION— **Billings, Mont.**

(Estimated cost $50,000 to $65,000)

Preliminary plans are being prepared by Nordquist & Sundell, architects, 1233 N. 27th St., Billings, for a 5,000 sq. ft. addition to the YWCA building in Billings, for Young Women's Christian Association, 907 Wyoming Ave., Billings. Addition will include multi-purpose room with stage and dressing room, two hobby rooms, toilets, storage and locker facilities. EE 2-12

RESEARCH CENTER— **Butte, Mont.**

(Estimated cost $2,000,000)

Plans announced by Montana School of Mines Research and Development Foundation, Inc., W. Park, Butte, for construction of a scientific research center near the campus of Montana School of Mines in Butte. SC 2-7

LINCOLN PRIMARY SCHOOL— **Butte, Mont.**

Planholders announced for construction of the one-story and partial basement, six-classroom Lincoln Primary School at Broadway and Clark streets in Butte. Bids will be opened 8 p.m., February 17, by School District No. 1, Administration Bldg., 111 N. Montana St., Butte. Plans with Eldred F. Moyle of Kestle-Godtland-Moyle, architects and engineers, 409 Silver Bow Bldg., Butte.

Planholders—GENERAL: Cahill-Mooney Construction Co., Box 398; Hammond-Everly Engineering Co., 27 W. Granite; Huckaba-Luley Construction Co., Whitehall; Knucky Construction Co.; O'Connell Construction Co., 110 W. Granite; Paul Olsen, Contractor, 1877 Phillips Ave.; Parrot Construction Co., 741 S. Arizona. MECHANICAL: Eva Plumbing and Heating Shop, 1035 S. Main; Murphy Plumbing and Heating, 121 W. Broadway; Reardon Plumbing and Heating Co., 129 E. Park; Sundberg Plumbing and Electric Co., 102 E. Park. ELECTRICAL: Copper City Electric Co., 2023 Harrison; LeSage's Electric, 204 W. Park; St. John Electric Co., 130 W. Broadway. PAINTING: Lester Brown, Painter, 1874 Harrison; Lee Chamberlain; Rudy Endresse, 134 E. Park; Nevin Painting Co., 2200 Grand Ave. Of Butte unless noted. SP 2-11. Previous report 2-5

●RESIDENCES— **Glacier National Park, Mont.**

Bids will be opened 2 p.m., March 20, in the office of the Superintendent, Glacier National Park, West Glacier, for construction of six three-bedroom residences in the headquarters area of Glacier National Park, Flathead County, Mont.; Proj. No. GL-W-148. Specifications will be available about February 21 from the office of the National Park Service, 1000 Geary St., San Francisco, Calif. Bid bond 20%. Within the scope of the design, bidders may elect to use either conventional on-site methods or pre-built or prefabrication methods.

Construction consists of wood framed structure on concrete foundations; painted wood siding; asphalt shingle roofs; oak, linoleum and cement floors; painted plasterboard ceilings and walls; ceramic tile wainscot in bathrooms; insulated ceiling and walls; wood double-hung windows; wood doors and trim; electric baseboard heating; electric water heaters, ranges, and refrigerators; complete plumbing and electrical work. SP 2-8. Previous report 10-9

★RAMP, HANGAR ELECTRIFICATION— **Glasgow AFB, Mont.**

Award to Power Engineering Co., Inc., 623 Jackson St., Sioux City, Iowa, $111,193, by Corps of Engineers, Walla Walla district, Bldg 602, City County Airport, Walla Walla, for ramp and hangar electrification at Glasgow AFB, Glasgow, Mont.; ENG-45-164-58-13. SP 2-7. Previous report 1-17

★ILAS BUILDINGS, UTILITIES— **Glasgow, Mont.**

Award to McCormack Construction Co., S.E. 3rd and Goodwin streets, Pendleton, $215,274, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of ILAS facility, including new buildings and an addition to an existing building, and utilities, including hardstands, electrical distribution, fencing, roads and drainage, at Glasgow AFB; ENG-45-164-58-14. SP 2-7. Previous report 1-22

Capehart Housing, Oahu

Bids will be received until 11 a.m. March 5, by District Public Works Office, 14th Naval District, Administration Bldg., Pearl Harbor Naval Shipyard, Pearl Harbor, Oahu, T.H., for constructing 248 dwelling units, roads, streets, utilities, services, paving, landscaping and furnishing and installing appliances for a Capehart Housing Project at Camp H. M. Smith, Halawa Heights, U.S. Naval Ammunition Depot, Manana, Oahu, T.H. Plans and specifications may be obtained from the resident officer in charge of construction, Naval Construction Contracts, Box 3173, San Francisco 19, Calif., on deposit of $115. Plans may be inspected at 13th Naval District, 107B Building 250, U.S. Naval Station, Seattle. DM 2-11

BUILDING, ACCESS ROAD— **Glendive AF Station, Mont.**

Bids will be opened about March 18, with definite date to be established by addendum, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 1,400 sq. ft. concrete masonry communications base building, tower foundations and one mi. access road at Glendive Air Force Station, about four mi. south of Glendive; ENG-45-108-58-62. Specifications with above office.

Building will have concrete or concrete block foundation; concrete slab floor; concrete masonry cavity type walls; steel roof joists with metal deck; insulation; built-up roofing; ventilation and heating system. SP 2-7

EDUCATIONAL BUILDING— **Great Falls, Mont.**

(Estimated cost $60,000)

Construction will start late this year or early in 1959 on an education building for First Baptist Church, Rev. Leland C. Lawrence, pastor, 527 2nd Ave. N., Great Falls. A building fund drive will be held in April for the project. SC 2-7

LAUNDRY, CLEANING SHOP— **Great Falls, Mont.**

(Estimated cost $25,400)

Construction will start soon by J. Jones Contractor, Inc., 3910 7th Ave. S., Great Falls, on a pumice block laundry and cleaning shop building at 13 6th St. N.W. in Great Falls, for American Linen Supply Co., 615 1st Ave. N., Great Falls. SC 2-11

COMMUNICATIONS CENTER— **Great Falls, Mont.**

The National Guard Bureau has allocated approximately $9,000 for relocation, remodeling and furnishing of an Air National Guard communications center at Great Falls International Airport, Great Falls. The 120th Fighter Group, Montana Air National Guard, who will occupy the building, will use a recently moved frame building acquired at Malmstrom AFB. The structure has been cut in half, with one part now a carpenter shop. Funds from the Bureau will be used to wire and to install plumbing and heating equipment in the other half of the structure. SC 2-12

HANGAR— **Helena, Mont.**

(Estimated cost $65,000)

Ostheimer & Campeau, architects, Granite Bldg., Helena, have been retained by Montana National Guard, Adj. Gen. S. H. Mitchell, Helena, to prepare plans and specifications for an aircraft hangar at the airport in Helena. The project is subject to National Guard approval and availability of funds. SC 2-7

▲BANK— **Helena, Mont.**

Lowe Construction Co., 2325 9th Ave. N., Billings, submitted the low bid to Union Bank and Trust Co., John Carlson, president, Union Bank Bldg., Helena, for construction of a new 70'x144', two-story and basement, reinforced concrete frame building to be located at the corner of Main St. and Lawrence, adjacent to Hale Square, in Helena. Plans by Orr Pickering & Associates, architects, Fratt Bldg., Billings. Bids were opened February 4 and further results will be announced when the contract is awarded, about February 21.

EE 2-11. Previous report 1-22

●OPEN MESS HALL— **Malmstrom AFB, Mont.**

Bid opening established as 2 p.m., March 12, by Corps of Engineers, Bldg. 602, City-County Airport, Walla Walla, for construction of a one-story, 14,500 sq. ft., reinforced concrete open mess, N.C.O., Malmstrom AFB; ENG-45-164-58-28. Specifications with above office. Bid bond 20%.

Building will include masonry, steel joist and metal roof deck, crawl space, equipped with gas-fired forced-hot water heating plant, built-in refrigerators, kitchen and food service equipment, and bar. Site development including asphalt paved drives and parking areas, concrete curbs and sidewalks, extension of existing utilities at the site, and lawn grass seeding. SP 2-11. Previous report 2-1

CHURCH REMODELING— **Simms, Mont.**

A building crusade program has been launched by Community Methodist Church, Rev. H. J. Burdsall, pastor, Simms, for remodeling the church at Simms. Construction will be performed by volunteer labor and will be completed this summer. Plans which were prepared by Hoiland & Lund, architects, Electric Bldg., Great Falls, call for additional classrooms, a fellowship hall, kitchen, restrooms and an enlarged sanctuary. SC 2-8

CHURCH— **Superior, Mont.**

(Estimated cost $40,000)

Construction will start this spring on a new St. Mary's Church at Superior, according to the Rev. Joseph B. Oblinger, pastor. The new church will be built on a site adjacent to the present building and will have seating capacity for 200. SC 2-7

CUCKOO CLOCKS

from the Black Forest. Calling "Cuckoo" every ¼ hour. In beautiful colors, lovely for children's room. 7¼" high. Boy & Girl Clock ... $6.95

Birdnest Clock, enchanting, will also be beautiful in a kitchen. 7" high. Bird in moving motion. Birdnest Clock ... $6.95

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ALASKA

SENIOR HIGH SCHOOL—Anchorage, Alaska
(Estimated cost $3,500,000)

Architect will be retained in late February or March by Anchorage Independent School District, Don Fridley, assistant superintendent, 1602 Hillcrest Drive, Spenard Branch, Anchorage, to prepare plans for a 1,200- to 1,400-student capacity senior high school to be constructed in the northeast section of the school district, Anchorage. Plans will be on the drawing board before financing has been arranged.

Tentative plans include physical development center (gymnasium), vocational sections, music and fine arts sections in multi-purpose room housing music center, lunchroom and recreation; improvement facilities for library and source material including audio-visual material; administration, health, counseling and related facilities; science laboratories; approximately 48 classrooms.
AL 2-7

★PARTITION CHANGES—
Anchorage, Alaska

Award to Magnusson Electric Co., 1324 Latouche St., Anchorage, $10,330, by Alaska Communications System, Seattle, for counter and partition changes in the ACS area of the Federal Bldg. at Anchorage; Inv. No. 58-7. AL 2-12. Previous report 2-1

●APARTMENT BUILDING— Aniak, Alaska

Bids will be opened 2 pm., A.S.T., March 6, by Civil Aeronautics Administration, Procurement Division, 223 E. 5th Ave. (Pioneer Bldg.), Anchorage, for construction of a four-unit frame apartment building complete with fuel storage tank, water system, sewerage line, soap bypass line, effluent line and septic tank at Aniak; Inv. No. 5-58-52. Specifications with above office. $20 deposit (no company or personal checks accepted). Bid bond 20%. SP 2-11

SCHOOL ADDITION— Big Delta, Alaska

Following is description on the one-story addition to the Horace Greely school at Big Delta; Proj. AAA58-C-FED-11-A8. Bids will be opened 2 p.m., February 27, by Housing and Home Finance Agency, at the field station, 1107 I St., Anchorage. Plans with above office and with H.H.F.A. area office, 450 Federal Bldg., 909 1st Ave., Seattle. Plans were prepared by Alaska Architectural and Engineering Co., 710 3rd Ave., Box 309, Fairbanks.

Reinforced concrete foundation; masonry and wood frame exterior walls; wood frame interior walls; concrete slab on grade; steel pipe columns, glued laminated beams; wood roof deck; rigid insulation; built-up roofing; plasterboard and acoustical tile; composition board and vinyl wall covering; vinyl asbestos and asphalt floor tile; fluorescent and incandescent lighting; radiant heat with air conditioning. SP 2-8. Previous report 2-6

▲HEAVY SUPPORT SHOP, UTILITIES—
Fort Richardson, Alaska

Apparent low bids are given below on construction of a 12,000 sq. ft. concrete frame heavy support shop, electrical and mechanical systems, paving and grading for Alaska Tactical Facilities, Fort Richardson; ENG-95-507-58-5. Bids were opened February 6 by Corps of Engineers, Alaska District, D-E Bldg., Anchorage.

APPARENT LOW BIDS: Lease Co., Inc., 1501 N. 35th St., Seattle, $324,699; Chris Berg, Inc., 2730 Westlake Ave. N., Seattle, $368,425; Pacific Alaska Contractors, Inc., Box 676, Anchorage, $372,729.

Lease submitted the low bid on alternate for tilt-up concrete construction. Other alternate is for concrete masonry construction. AL 2-8. Previous report 2-1

■SCHOOL ADDITION— Ketchikan, Alaska

Planholders announced for construction of a 24'x62½', frame, one-classroom and apartment addition to, and alterations and renovations to the elementary school at Annette Island, near Ketchikan; Proj. No. Aaa-58-C-Fed-2-B8. Bids will be opened 10 a.m., February 19, by U.S. Housing and Home Finance Agency, at the field station, 1107 I St., Anchorage. Plans with above office and with the HHFA area office, 450 Federal Bldg., 909 1st Ave., Seattle.

Planholders: C. R. Lewis Co., Inc., Box 2905, Anchorage; Builders, Inc., 2557 Tongass, Ketchikan; McGillvray Bros., Box 2128, Ketchikan; Walter J. Stutte, 1600 Glacier Ave., Juneau; Kings Plumbing and Heating, Ketchikan; Triplette & Trucano, 415 Willoughby Ave., Juneau; Elmer-Moody Woodwork, 3635 16th W., Seattle; Soule' Steel Co., 4100 W. Marginal Way, Seattle. ALTERATION PLANS ONLY: Lent's, Inc., 279 4th St., Bremerton. AL 2-11. Previous report 1-30

■SCHOOL— King Salmon, Alaska

Planholders announced for construction of a 48'x24', frame, one-classroom school building near the Civil Aeronautics Administration Station at King Salmon; Proj. No. 58-C-Fed-2-G8. Bids will be opened 10 a.m., February 20, by U.S. Housing and Home Financing Agency, at the field station, 1107 I St., Anchorage. Plans with above office and with the HHFA area office, 450 Federal Bldg., 909 1st Ave., Seattle.

Planholders: Clifford M. Johnson, Inc., Naknek; John Quisberg, Naknek; Ed Johnson, Naknek; Leo A. Walsh, 3900 Minnesota, Spenard; C. R. Lewis Co., 525 E. 4th Ave., Anchorage; Arthur E. Corni, Spenard; Kenneth L. Brady Construction Co., 1402 Nelchina, Anchorage.
AL 2-11. Previous report 1-31

■HEAVY SUPPORT SHOP—
Ladd AFB, Alaska

Planholders announced for a tactical facilities heavy support shop and outside utilities at Ladd Air Force Base; ENG-95-507-58-6. Bids will be opened 2 p.m., February 25, by Corps of Engineers, Alaska district, D-E Bldg., Anchorage.

Planholders: Henkels & McCoy Contractors, 6100-14 N. 20th St., Philadelphia, Pa.; Holaday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; S. S. Mullen, Inc., Box 2[illegible] Terminal Annex, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; C & H Builders, Inc., 1619 8th Ave. N., Seattle; Charles A. Langlais & Son, Inc., 474 Bryant St., San Francisco, Calif.; Beck Constructors, 3647 Stone Way, Seattle; Peter Kiewit Sons' Co., 1300 Aloha, Seattle; Chris Berg, Inc., 2730 Westlake Ave. N., Seattle.
SP 2-12. Previous report 1-[illegible]

●APARTMENT BUILDING—
McGrath, Alaska

Bids will be opened 11 a.m., A.S.T., March 4, by Civil Aeronautics Administration, 22[illegible] E. 5th Ave., Anchorage, for construction of two-unit court type apartment building complete with utiliduct, water supply system and sewerage lines at McGrath; Inv. No. 5-58-51. Specifications with above office. $20 deposit (no company or personal checks accepted). Bid bond 10%. SP 2-[illegible]

VOCATIONAL SCHOOL— Valdez, Alaska

A new vocational school for Alaska Native Service at Valdez is contemplated. So far no steps have been taken toward even preliminary planning. AL 2-[illegible]

●SCHOOL ADDITION—
Woody Island, Alaska

Bids will be opened 10 a.m., A.S.T., February 27, by Housing and Home Finance Agency, at the field station, 1107 I St., Anchorage, for construction of a one-classroom addition, including cloak and storage cabinets and equipment, to the school at Woody Island; Proj. AAA58-C-FED-2-E8. Specifications with above office and with the area office, 450 Federal Bldg., 909 1st Ave., Seattle. $7.50 charge. SC 2-[illegible]

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★CLEARING, ACCESS ROADS—
Albany to Blodgett, Ore.

Award to Lentz Logging Co., 1412 "T" St., Sweet Home, $38,034, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing of right-of-way and construction of access roads for Sched. 1 of the Albany-Toledo section of the Santiam-Toledo 230-kv line No. 1, Benton County, Ore.; Inv. No. 8628.
WB 2-8. Previous report 1-30

DOLPHINS, SHORE PILES— Clifton, Ore.

Walter Lendten, Box 473, Westport, has appied for approval to the Corps of Engineers, Portland District, 628 Pittock Block, Portland, of three dolphins and a row of shore piles driven on the Tenasillahe Island shore of Clifton Channel near Clifton. The dolphins have been driven not more than 50' from the low water line. Beginning 150' downstream from the Jones dock, the three dolphins are spaced at intervals of 780'. The shore piles have been driven at the low water line and extend downstream a total of about 2,340'.

Colonel Jackson Graham, Portland District Engineer, will receive letters until February 17 concerning the effect of the work on navigation. SP 2-7

▲INTAKE TOWER, WATER SHED—
Coos Bay, Ore.

Bids received by Coos Bay-North Bend Water Board, C. V. Signor, manager, 3[illegible] Broadway, Coos Bay, for construction of concrete intake tower and storage water shed, a facility to be used for domestic and industrial water supply, located in the vicinity of the Lower Pony Creek Dam. Plans by John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland. Bids opened February 10. LOW BIDS: A. T. Fox, [illegible] Virginia, North Bend, $38,655; Sig Anderson, 1371 Bayview Ave., North Bend, $39,2[illegible] Riverside Construction Co., Box 3853, Portland, $44,071. SP 2-12. Previous report 2-[illegible]

■GRADING, BRIDGE—Coos County, Ore.

Planholders announced for grading 7.[illegible] mi. and constructing 155' reinforced concrete bridge, Oregon Timber Access Road Project BLM 620-A, Burnt Mountain Road, Bureau of Land Management-Coos Bay district, Coos County, Ore. Bids will be opened 10 a.m., February 21, by Bureau of Public Roads, B. M. French, regional engineer, [illegible] Morgan Bldg. (Box 3900), Portland.

Planholders: Timber Access Industries, P.O Box 507, Corvallis; Hamer Corp., Box 428, Roseburg; A. L. Harding, Inc., Box 7[illegible] Stayton; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd.; Natt McDougall Co., 824 Pittock Block; White Bros. Construction Co., P.O. Box 376, Walla Walla; E. A. Kruse, Box 396, Yoncalla; Ayers Construction Co., 7305 N.E. 29th Ave.; S. & A. Log Co., Foster; Hamson & Myers, 322 8th St., Oswego; C. E. O'Neil, Route 2, Box 95, Creswell; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland; Mack Slate, Jr., 632 Washington St., Albany; Funderburk Construction Corp., Sutherlin; E. C. Hall Co., 11655 S.W. Barbur Blvd.; R. A. Heintz Construction Co., [illegible]

N.E. Columbia Blvd.; Washington Utilities Construction Co., 1203 Regents Blvd., Tacoma; Vernie Jarl, Box 507, Gresham; J. N. Conley, 4332 N.E. Royal Court; S. W. Groesbeck, Box 646, Eugene; R. & M. Construction Co., P.O. Box 426, Central Point; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle.

Umpqua River Navigation Co., 255 N. 1st St., Reedsport; Coos Bay Dredging Co., P.O. Box 217, Coos Bay; Tom Lillebo Construction Co., P.O. Box 365, Reedsport; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Pistovich Construction Co., 975 Imperial Drive, Salem; McNutt & Sons, Inc., Grass Valley, Ore.; Stowers Bros., P.O. Box 489, Tillamook; Commercial Iron Works, Inc., 2601 S.E. Grand Ave.; Martin Kincheloe, Box 1144, Myrtle Point; C. H. Strong Engineering & Construction, P.O. Box 366, Eugene; Fred H. Slate Co., 7805 S.W. 40th Ave.; F. L. Somers, P.O. Box 668, Medford; Peter Kiewit Sons' Co., 405 E. Main, Sparta Bldg., Medford; H. & P. Logging Co., 13 Almond Ave., Roseburg; Yellow Creek Construction Co., 1036 Link Ave., Corning, Calif. Of Portland except as noted.

WB 2-7. Previous report 1-30

▲CABLE TRENCH— Coos Head, Ore.

Bids received by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for providing a cable trench, including tunneling, excavation, filling and backfilling, drainage, and for providing beacons and anchors, at the U.S. Naval Facility at Coos Head; Spec. No. 12304/57. Bids opened February 6.

Four bids received. TWO LOW BIDS: Haltan & Bingham, Route 2, Box 754, North Bend, $13,933; Browning & Randolph, 460 W. Salem Heights, Salem, $14,367. HI BID: Riverside Construction Co., Box 3853, Portland, $26,626. SP 2-7. Previous report 2-1

▲INSTALL WATER LINE— Coos Head, Ore.

Seven bids received by Coos Bay-North Bend Water Board, C. V. Signor, manager, 364 Broadway, Coos Bay, for laying 5,500' of 12" class 150 cast iron pipeline along Ocean Blvd. from 19th St. in Coos Bay to the east side of Spruce St. Bids opened February 3. TWO LOW BIDS: Everett Den Herder, Box 261, Medford, $8,906; Gail Zysset, 1565 Roosevelt, Salem, $8,974. HI BID: Tedrick Construction Co., Route 2, Box 131, McMinnville, $11,696.

SP 2-7. Previous report 1-31

●CRUSHED ROCK— Estacada, Ore.

Bids will be opened 11 a.m., February 25, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., room 207, Portland, for 21,300 c.y. of crushed rock, to be delivered to stockpile sites from borrow pit, which is a gravel bar located on the Clackamas River approximately 28 mi. southeast of Estacada. Bid No. 251. Specifications with above office. WB 2-12

GASOLINE STORAGE TANK— Kingsley Field, Ore.

Bids will be opened about March 10 by U.S. Air Force, George R. Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, for construction of a 25,000-gal. underground steel tank for storage of 115/145 octane gasoline; Proj. 14KLF 14-57. Specifications available now from the office of the purchasing and contracting officer. Project includes necessary excavation, tank installation, connection of new piping to distribution system and installation of electrical service for operation of motors and pumps. ZZ 2-11

★MODIFY POWER PLANT— Klamath Falls, Ore.

Award to Donald Francis Hastings, 4410 Carlton Way, Klamath Falls, $9,322, by Bureau of Reclamation, Klamath Falls, for modifying the Enterprise Powerplant, Klamath County, near Klamath Falls; Spec. No. 200C-373. Specifications with above office. SP 2-7. Previous report 1-28

●UNDERGROUND SPRINKLER SYSTEM— Klamath Falls, Ore.

Bid opening extended from February 12 to 2 p.m., February 19, by 13th Naval District, Bldg. 250, U.S. Naval Station, Seattle, for installation of underground sprinkler systems, at Kingsley Field, Klamath Falls; Spec. 12307/57. PD 2-12. Previous report 1-28

★STORM SEWER— Medford, Ore.

Award to W. H. Conrad Co., Inc., 1118 Spring St., Medford, $8,999, by City Council, City Hall, Medford, for laying storm sewer laterals to connect with the recently completed 10th St. storm sewer.

SP 2-12. Previous report 2-4

SUBMARINE PIPELINE— Portland, Ore.

The Portland Gas and Coke Co., 920 S.W. 6th Ave., Portland, has applied to the Corps of Engineers, Portland office, 628 Pittock Block, Portland, for a permit to lay a submarine pipeline across the bed of the Willamette River at Portland. The proposed pipeline will extend across the river from the foot of S.E. Caruthers St. on the east side to a point on the west side about 400' southeast from the Pacific Power and Light Co. plant. The pipe will be buried at a depth of not less than 35' below low water the entire distance between the harbor lines, with a maximum depth near the east side of 40'.

Colonel Jackson Graham, Portland District Engineer, will receive letters until February 14 concerning the effect of the work on navigation. SP 2-7

▲SEWERS— Portland, Ore.

Bids received by city auditor, Will Gibson, City Hall, Portland, for constructing the S.E. 25th Ave., S.E. Mitchell St. and private property sewer system. BIDDERS: Frank W. Kanehl, 5203 S.E. 108th Ave., $8,236; B. J. Shepherd & Son, 6810 S.E. Mall, $8,582; Oscar Stofiel, 14204 S.E. Elderberry Lane, Milwaukie, $8,703; Riverside Construction Co., 12441 S.E. Market St., $8,916; Don Thornton, 2809 W. 21st, Vancouver, $9,538; P. S. Lord, 4507 S.E. Milwaukie Ave., $9,586. Of Portland except as noted. Bids opened February 5.

WB 2-8. Previous report 1-31

▲ASPHALTIC PAVING— Portland, Ore.

Bids received by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for 6,725 sq. ft. asphaltic paving at S.W. Jefferson St. boat landing and at Terminal No. 4, adjacent to Carroll Road. BIDS: Cascade Construction Co., Foot of S.W. Abernathy, $2,434; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $2,960; Portland Road & Driveway Co., 7295 S.E. King Road, $4,035. Of Portland. Bids opened February 6.

WB 2-8. Previous report 1-25

▲REMOVE FERRY SLIP, PUMPING STATION, TRESTLE— Portland, Ore.

Bids received by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland (P.O. Box 4099), for removal of ferry slip, pumping station and walkway trestle at Swan Island. BIDDERS: General Construction Co., 4850 N.W. Front Ave., $9,898; Steelman-Duff, Inc., 7525 N.E. 6th Ave., $16,400; Walter Goodat, 1735 S.E. Union, $24,444; Harold G. LaVelle, 10430 S.E. Bush St., $31,000. Of Portland. Bids opened February 5.

WB 2-8. Previous report 1-25

▲DREDGING— Portland, Ore.

Bids received by Commission of Public Docks, Thomas P. Guerin, general manager, 3070 N.W. Front Ave., Portland, for dredging and removal of approximately 21,960 sq. yd. silt and sediment from Slip No. 1, Berth 1, Pier 1, and Berth 1, Pier 2, at Terminal No. 4, Portland. BIDDERS: Willamette Tug & Barge Co., Foot of Portsmouth St., Portland, $15,152; Palmberg Construction Co., P.O. Box 991, Astoria, $15,275; General Construction Co., 4850 N.W. Front Ave., Portland, $15,300. Bids opened February 7.

WB 2-11. Previous report 2-4

●GRADING, PAVING— Portland, Ore.

Bids are being invited by R. H. Lawrence, 7047 N. Wabash St., Portland, for grading and paving approximately 600' extension of N.E. Morgan St. between N.E. 23rd and N.E. 27th avenues, Portland. Specifications with city engineer's office, City Hall, Portland.

WB 2-8

▲CAST IRON PIPE— Portland, Ore.

Bids received by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for furnishing Class 150 mechanical joint cast iron water pipe, fob. 1900 N. Interstate Ave., Portland. BIDDERS: U. S. Pipe & Foundry Co., Coleman Bldg., Seattle, $79,521; Pacific States Cast Iron Pipe Co., Portland Trust Bldg., Portland, $81,450. Bids opened February 6. WB 2-11. Previous report 1-25

●STREET IMPROVEMENT—Portland, Ore.

Bids will be opened 10:30 a.m., February 20, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for grading, constructing rock base and surfacing with bituminous macadam (penetration type), or asphaltic concrete on S.E. 66th Ave. from S.E. Clatsop St. to S.E. Tenino St.; Project D-270. Plans with county roadmaster's office, 2115 S.E. Morrison St. $2 charge. Certified check or bid bond 10%.

Quantities: 1,922 c.y. unclassified excavation; 72' of 8" tongue and groove concrete pipe; 844 c.y. of 2" minus material-in-base; 286 c.y. ¾" minus material-in-base and shoulders; 296 c.y. oil rock; 323.3 tons bituminous cement; 30' mail box posts; 410 tons asphaltic concrete. WB 2-11

DOLPHINS— Prosper, Ore.

The Umpqua River Navigation Co., Reedsport, has applied to the Corps of Engineers, Portland district, 628 Pittock Block, Portland, for a permit to construct four 3-pile dolphins in the Coquille River near Prosper. The site for the proposed work is on the right (north) side of the main channel about 1,200' downstream from the Bullard's bridge. Two of the dolphins will be driven near the mean lower low water line and two about 90' channelward. Plans submitted by the company show the channelward limit of the outer dolphins will be about 230' north from the main channel.

Colonel Jackson Graham, Portland District Engineer, will receive letters until February 20 concerning the effect of the work on navigation. SP 2-11

●SPAR CROSSARMS— Portland, Ore.

Bids will be opened 2 p.m., February 25, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering spar crossarms fob Raymond, Wash.; Snohomish, Wash.; Corvallis; Leaburg or Springfield, Ore.; Inv. No. 8652. Specifications with above office. SP 2-12

★GATE VALVES, CHECK VALVES— Portland, Ore.

Awards by city purchasing agent, 208 City Hall, Portland, for 4" to 12" iron body gate valves, for 16" to 30" iron body gate valves, and for 3" and 4" flanged horizontal swing check valves. AWARDS—SMALL GATE VALVES: Pacific States Cast Iron Pipe Co., Portland Trust Bldg., $7,791; Utilities Supply Co., 7830 N.E. Halsey St., Portland, $2,232.

Are you planning on a CHANGE OF ADDRESS? Have you recently MOVED? Please notify us at once.

We want you to receive your PACIFIC ARCHITECT & BUILDER without delay.

Give us your old as well as your new address. A post card will do.

Mail it to PACIFIC ARCHITECT and BUILDER, 2418 Third Avenue, Seattle 1, Wash.

LARGE GATE VALVES: Consolidated Supply Co., 2300 N.W. 26th Ave., Portland, $12,990; Utilities Supply Co., $4,721. CHECK VALVES: Utilities Supply Co., $637.
WB 2-12. Previous report 1-25

●EAST INTERSTATE BRIDGE— Portland, Ore.

Date of bid opening has been extended from March 20 to 9 a.m., March 27 on construction of the East Interstate Bridge over the Columbia River on the Pacific Highway in vicinity of Portland, Multnomah County, Ore., and Vancouver, Clark County, Wash. Bids will be opened by Oregon State Highway Commission in the Queens Room of the Imperial Hotel in Portland.

This is a cooperative project to be financed and built under a tri-party agreement between the states of Oregon and Washington, acting through their respective state highway commissions and the Washington Toll Bridge Authority.

Substructure—Reinforce and raise five existing piers, remove entirely one existing pier and raise only one existing pier.

Superstructure—Remove two existing 265' steel spans and replace with one new 531' steel span, remove one existing 265' steel span and replace with concrete viaduct, raise all spans to new grade line corresponding to new West Bridge grade line, redeck completely two existing steel spans, remove existing counterweight cables and place and perform incidental and miscellaneous work as required by the plans and specifications.

Quantities: shoring and cribbing; 6,900 c.y. structural excavation; 239,000' timber piling; drive 468 piles; 2,590 c.y. seal concrete; 7,540 c.y. class A concrete; 779,000 lb. metal reinforcement; 31,000 lb. tie rods; remove 2,750 c.y. concrete; remove 1,600 ton structural steel; 1,831,000 lb. structural steel; 25 ton A-C paving; 75,000 lb. counterweight wire rope; 90,000 lb. castings; 540' metal rail; 200 sq. yd. concrete slab slope protection riprap and 34,000 ton pier protection riprap.
DM 2-7

▲STATE HIGHWAY PROJECTS— Salem, Ore.

Bids were received February 6 by Oregon State Highway Commission, State Highway Bldg., Salem, on eight highway construction projects.

Award of contracts will not be made until the next meeting of the commission which will be held in Portland on February 27.

ROCK PRODUCTION, Baker - Malden Gulch—Approximately 9,500 c.y. crushed materials in stockpile on the Baker-Homestead Highway east from Baker in Baker County; a State Project.

LOW BIDS: Richard Beshey, Route 1, Parma, Idaho, $29,821; Arthur Simonsen, 2925 Grandview, Baker, $32,015; Moyer Gravel Co., Alturas, Calif., $32,359.

GRADING, Thomas Creek-Cape Ferrelo Section—Grading 3.93 mi. of Oregon Coast Highway about five mi. north of Brookings, Curry County; Federal Aid Bond Project No. BF-124(12).

LOW BIDS: Darkenwald Construction Co., Inc., 2131 Fulton Ave., and Harms Bros., 5261 Stockton Blvd., Sacramento, Calif., $1,635,781; Peter Kiewit Sons' Co., Medford, $1,677,509; Fred H. Slate Co., Ore. Ltd., 7805 S.W. 40th and E.C. Hall Co., 12012 S.W. Barbur Blvd., Portland, $1,763,602.

ASPHALTIC CONCRETE PAVING, Myrtle Creek-Fords Bridge Section—Paving 6.07 mi. Pacific Highway south from Myrtle Creek, Douglas County; FAP No. 1-78(39).

LOW BIDS: Warren Northwest, Inc., Box 5072, Portland, $603,772; Roy L. Houck & Son, 1585 N. 20th, Salem, $604,260; Central Paving Co., Independence, $612,872.

OILING, Lonerock Junction - Eightmile Section—Oiling 20.89 mi. Wasco-Heppner Highway about four mi. east of Condon and west from Eightmile, Gilliam and Morrow counties; a State Project.

LOW BIDS: Russell Olson Construction Co., Box 272, Pendleton, $19,332; Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $19,455; J. C. Compton, McMinnville, $19,497.

ROCK PRODUCTION, Long Creek-Beech Creek Summit — Aproximately 6,300 c.y. crushed materials in stockpiles on Pendleton-John Day Highway, south from Long Creek and about 16 mi. north of Mt. Vernon, Grant County; a State Project.

LOW BIDS: Barney Helser, 15000 S.W. Far Vista, Beaverton, $21,735; Calkins Crushing Co., Box 547, Oceanlake, $22,080; E. H. Itschner, Box 316, Molalla, $22,680.

OILING, STOCKPILING, John Day-Bridgeport Junction Section—Oiling 39.09 mi. and furnishing crushed materials in stockpile on John Day and Baker-Unity highways, easterly from John Day, Grant and Baker counties; a State Project.

LOW BIDS: Calkins Crushing Co., Oceanlake, $81,244; Barney Helser, Beaverton, $82,354; C. E. Leseberg, 201 Reece Ave., Nyssa, $82,422.

GRADING, Richards-Siuslaw River Section—Grading 3.23 mi. Richardson-Eugene Highway about 37 mi. west of Eugene, Lane County; FAP No. S-234(12).

LOW BIDS: Hudspeth, Pine Inc., Prineville, $199,329; C. H. Strong Engineering and Construction Co., 3871 Royal, Eugene, $215,990; Allum Bros., Box 253, Eugene, $223,947.

GUARD RAIL, Hermiston—Approximately 2,700' metal guard rail on Umatilla-Stanfield Highway about one mi. south of Hermiston, Umatilla County; a State Project.

LOW BIDS: J. C. Denton & Sons, Beaverton, $5,859; John H. Bostwick, Eugene, $6,196; Vern Hoaglin, Beaverton, $6,453.
DM 2-7. Previous report 2-1

★ELECTRIC CABLE— Seufert, Ore.

Award to Stubbs Electric Co., 33 N.W. Park Ave., Portland, $1,416, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for 300' of No. 4/0, 600-volt, three-conductor portable electric cable, fob Seufert (The Dalles, Ore.); CIVENG-35-026-58-103. Bids opened February 3.
WB 2-12. Previous report 1-31

★CHLORINATOR— Silverton, Ore.

Award to Wallace & Tiernan, Inc., Pittock Block, Portland, $1,214 (less $40 if installation performed by the city), by City Council, City Hall, Silverton, for chlorinator for the filtration plant now under construction at Silverton. Two bids were received for the February 3 opening.
SC 2-12

★DRAINAGE— St. Helens, Ore.

Awards announced by City Council, City Hall, St. Helens, for furnishing drainage and miscellaneous materials. Specifications by N. W. Haner & Associates, consulting engineers, 220 S.W. Alder, Portland. Bids opened January 28. AWARDS—SCHED. 1 (corrugated metal pipe): Armco Drainage and Metal Products, Inc., Box 751, Federal Station, $2,723. SCHED. 2 (plain and reinforced concrete culvert and sewer pipe): Collins Concrete and Steel Pipe Co., 3841 N. Columbia Blvd., $12,172. SCHED. 3 (concrete pipe fittings): Collins Concrete and Steel Co., $156. SCHED. 4a and 4b (cast iron manhole rings and gratings): Industrial Iron Works, Box 4625, $1,246. SCHED. 5a and 5b (reinforcing steel and welded wire fabric): Soule' Steel Co., 2630 N.W. St. Helens Road, $1,729. SCHED. 5c (portland cement): Dahlgren's Feed and Builders' Supply Co., City Dock, St. Helens, $1,960. Of Portland unless noted.
SP 2-12. Previous report 1-14

★WELL DRILLING— Sweet Home, Ore.

Award to Harry A. Robinson, Salem, $1,060, by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.E. Oregon St., Portland, for drilling, casing, sealing, developing and testing of a water well on government-owned site at the Cascadia Ranger Station located approximately 14 mi. east of Sweet Home on Highway No. 20, Willamette National Forest; Bid No. 232.
WB 2-12. Previous report 2-6

●WASCO DAM— Wapinitia Project, Ore.

Bids will be opened 2 p.m., March 18, by Bureau of Reclamation, Jericho Lane, Culver, Ore., for construction of the 415' long at crest, 46' high earthfill Wasco Dam and appurtenant structures, to be located on Clear Creek about 35 mi. west of Maupin, Wasco County, Ore.; Spec. No. DC-5022. Specifications with John P. Vertrees, project construction engineer, Route 1, Culver; H. T. Nelson, regional director, Box 937, Boise, Idaho; and L. N. McClellan, assistant commissioner and chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo. Completion time 500 days.

Aside from the dam, features of the work include (a) outlet works including approach and outlet channels, concrete inlet and gate structures, concrete rectangular conduit, and concrete stilling basin, and (b) approximately one mi. gravel surfaced access road.

Quantities: 8,900 c.y. excavation for outlet works; 5,900 c.y. same for emergency spillway; 17,000 c.y. same for embankment foundation; 2,000 c.y. same, stripping borrow pits; 42,000 c.y. same in borrow area, separation and transportation to dam embankment; 225 c.y. pervious backfill; 200 c.y. bedding for riprap; 45,000 c.y. earth fill in dam embankment, zone 1; 1,200 c.y. specially compacted earth fill; 9,000 c.y. cobble and rock fill in dam embankment, zone 2; 1,700 c.y. riprap; 110', 4" furnishing perforated irrigation pipe and constructing drains with open joints; 15' of 6" same; 730 bbl. cement; 80,400 lb. reinforcement bars; 20 c.y. concrete in spillway grade wall; 40 c.y. same in outlet-works intake structure; 125 c.y. same in outlet-works gate structure; 215 c.y. same in outlet-works conduit and cut-off collar; 115 c.y. same in outlet-works stilling basin; 325' rubber water-stop; 30 dowels; 15,000 c.y. excavation for roadway; 306', 18" corrugated metal pipe; 60 sq. yd. dry rock paving for roadway; 2,300 c.y. gravel or crushed rock surfacing for roadway; lump sum bid on two 36"x36" cast iron slide gates and lifts, and metalwork.
SP 2-11. Previous report 11-27

●MOORING FACILITIES— Warrenton, Ore.

Bids will be opened 1 p.m., February 11, by City Council, City Hall, Warrenton, for construction of moorage facilities including ramps, approaches, floats and piling in the Warrenton Boat Basin. Specifications available at the city hall. $10 deposit.

The basin facilities are to accommodate about 434 boats of all sizes. The longest pilings required will be about 54'. There will be about 5,000' of such piling. Styrofoam plank is to be used for the smaller boat floats, and the larger floats, for dragger and other larger boats, will be spruce log type.
SC 1-

WASHINGTON

●CAST IRON PIPE— Bellingham, Wash.

Bids will be opened February 17 by Bellingham Water Board, City Hall, Bellingham, for furnishing the water department with 8,000' of 8" and 5,000' of 6" cast iron pipe and two lengths of 24" bell and spigot. Specifications with above office.
ET 2-

●REPAIRING CONCRETE PILES— Bremerton, Wash.

Bid opening extended from February 11 to 2 p.m., February 19, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for repairs to concrete piles, Pier 4 approach, Puget Sound Naval Shipyards, Bremerton; Spec. No. 12306/57.
PD 2-12. Previous report 1-

★UNIT SUB-STATION—Cedar Falls, Wash.

Award to Westinghouse Electric Corp., 301 E. Marginal Way, $167,791, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing, delivering and installing one 30,000-kva. 115/15-kv. three-phase unit substation at Cedar Falls generating station, Cedar Falls.
PD 2-11. Previous report 1-

▲BRIDGE— Chelan County, Wash.

Bids received by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, Box 4137, Portland, Ore., for construction of the Entiat River Bridge on Mad River Road, Wenatchee National Forest, Chelan County; Bid No 237. BIDDERS: W. E. Gregory, 14509 E. Spokane St., Spokane, $27,891; Mann Construction Co., P.O. Box 577, Redmond, $29,987; Everett McKellar, Chelan, $30,366; Snitily Bros. Construction Co., P.O. Box 671, Wenatchee, $30,339; General Construction Co., 4850 N.W. Front Ave.,

Portland, $30,963; H. Fleshing & Co., 1637 S Higgins, Missoula, $31,309; Cusicks, Inc., Wenatchee, $32,131; Hugh S. Ferguson Co., 1927 1st Ave. S., Seattle, $32,878; Curtis Construction Co., Granite Falls, $33,076; Russell Gillette Co., Cle Elum, $35,012; James P. McDonald, Entiat, $35,807; Steel Construction Co., 5300 N.W. Front Ave., Portland, $35,899; P. L. Wiesner, Sunset Highway E., Wenatchee, $39,399. Bids opened February 5.
WB 2-7. Previous report 1-29

●**FRAME HOIST—** **Chief Joseph Dam, Wash.**

Bid opening established as 2:30 p.m., February 28, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for fabrication of a 64' long boom using Government-furnished material, including installation of Government-furnished cable, blocks, hoists, miscellaneous material, and miscellaneous contractor-furnished material necessary to complete the installation of an "A" frame on the tailrace east of the east end of the powerhouse at Chief Joseph Dam, Columbia River, Wash.; CIVENG-45-108-58-21. Specifications with above office.
SP 2-8. Previous report 1-31

●**CRUSHED ROCK—** **Coupeville, Wash.**

Bids will be opened 2 p.m., March 3, by Island County Commissioners, Courthouse, Coupeville, for production of about 40,000 c.y. crushed rock surfacing material. Specifications with George H. Norris, county engineer, above address. $5 deposit.

Some 20,000 c.y. of the material is to be produced in the Wilkenson Pit No. 36, and 20,000 c.y. in Bogue Pit No. 29. SC 2-7

●**WATER PIPE—** **Edmonds, Wash.**

Bids will be opened 8 p.m., March 4, by City Council, City Hall, Edmonds, for furnishing a carload of 6" water pipe and installation of approximately 2,000' of 6" water main on Pine Ave. from 6th to 9th avenues, Edmonds. Specifications with James Reed & Associates, consulting engineers, 324 Main St., Edmonds. HH 2-11

★**DELIVERY FACILITIES— Ephrata, Wash.**

Award to John M. Keitch, Box 504, Pasco, $26,695, by Bureau of Reclamation, Box 368, Ephrata, for additional delivery facilities in Blocks 46 and 49 in the vicinity of Othello, Adams County, Wash.; Spec. No. 117C-484. SP 2-8. Previous report 1-15

★**EARTHWORK, STRUCTURES—** **Ephrata, Wash.**

Award to Twin City Construction Co. and Clarence Braden, 404 N. 7th St., Pasco, $5,472, by Bureau of Reclamation, Box 368, Ephrata, for earthwork and structures for the PE47-Q1A lateral, and modification of structures along PE47N lateral, Block 15, about nine mi. west of Eltopia, Franklin County, Wash.; Spec. No. 117C-483.
SP 2-11. Previous report 1-15

▲**EARTHWORK, PIPELINE, STRUCTURES—** **Ephrata, Wash.**

Seven bids received by Bureau of Reclamation, Box 368, Ephrata, for earthwork, pipeline and structures, EL33 and EL68K waterways, Block 42, about three mi. south and seven mi. east of Moses Lake, Grant County, and Block 45, about one mi. east and three mi. north of Othello, Adams County, Wash.; Spec. No. 117C-496. Bids opened February 11. LOW BIDS: Mast & Myers, Box 1112, Moses Lake, $6,987; Kenneth E. Beck, Box 518, Moses Lake, $7,326; Syblon-Reid Construction Co., Box 587, Warden, $7,715. Engineer's estimate, $7,282.
SP 2-12. Previous report 1-17

▲**PILE STRUCTURE—** **Everett, Wash.**

Two bids received by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of a single steel pile structure with platform for Snohomish River Channel Light 16 near Everett; Inv. No. FS-1704. Bids opened February 11. ONLY BIDS: American Pile Driving Co., Inc., Pier 2, Everett, $1,200; Larsen Construction Co., Colman Bldg., Seattle $1,650. SP 2-12. Previous report 1-29

■**MOTOR POOL PAVING—** **Fort Lewis, Wash.**

Planholders announced for paving of an existing motor pool area, Regimental Motor Pool No. 2, Phase 2, Fort Lewis; ENG-45-108-58-47. Bids will be opened 2 p.m., February 20, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle.

Planholders: Concrete Construction Co., 2015 Center St., Tacoma; Lige Dickson Co., 3315 S. Pine St., Tacoma; Electric Construction Co., 1650 Center St., Tacoma; J. D. Shotwell, 3113 S. Pine St., Tacoma; Opus General Contractors, 1617 Pennsylvania Blvd., Philadelphia, Pa.
SP 2-7. Previous report 2-5

BUS REGULATOR— **Grandview, Wash.**
(Estimated cost $39,000)

Plans announced by Pacific Power and Light Co., L. W. Dick, 7 N. 3rd St., Yakima, for installation of a bus regulator at Grandview as part of the $2,130,000 program planned in Yakima County during 1958.
IG 2-12

●**STEEL PILE WITH PLATFORM—** **Ilwaco, Wash.**

Bids will be opened 2 p.m., February 27, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of single steel pile with platform for Ilwaco Breakwater Light, Ilwaco; Inv. No. FS-1710. Specifications with above office. SP 2-12

PUMPHOUSE, STORAGE TANK, UTILITIES— **Larson AFB, Wash.**

Bids will be opened about March 19, with definite date to be established by addendum, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of a water-alcohol storage and blending system and appurtenant utilities, paving, and fencing at Larson AFB; ENG-45-164-58-30. Specifications with above office.

Work includes construction of a masonry pumphouse with concrete roof, floor and foundation having approximately 330 sq. ft. floor area; construction, coating and installation of two 25,000-gal. underground-type storage tanks; construction of a truck fill stand and 400 sq. ft. of 8" thick thickened-edge portland cement concrete pavement; construction of 1,670 sq. ft. of 2" thick asphaltic concrete surfaced roadway; construction of extension to existing electrical distribution system and pole-type transformer substation and electrical power and control services; construction of 335' chain link, barbed wire topped 6' chain link fence. Completion time may 1, 1959. SP 2-11

●**ELECTRICAL INSTALLATIONS—** **Longview, Wash.**

Bids will be opened 1 p.m., February 25, by Port of Longview, Port Dock, Longview, for electrical work including maintaining electrical service for the Continental Grain Co. operation and for installation of additional wiring and electrical equipment in the new shipping gallery. Plans with above office. $10 deposit. SC 2-8

▲**TRANSMISSION LINE—** **Mason, Jefferson Counties, Wash.**

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Sched. 2 of the Shelton-Fairmount 115-kv. line No. 2, Mason and Jefferson counties, Wash.; Inv. No. 8615. BIDDERS: Collins Electrical Co., Inc., P.O. Box 1609, Stockton, Calif., $182,371; North Idaho Construction Co., P.O. Box 190, Coeur d'Alene, $188,860; Tyee Construction Co., 1901 23rd Ave. S., Seattle, and Lee Hoffman, Box 37, Beaverton, Ore. (joint venture) $198,306; Power Line Erectors, Inc., N. 2018 Water Works, Spokane, $229,747; R. C. Hughes Co., 2105 N. Airport Way, Spokane, $239,856; Montgomery Electric Co., 2375 N.W. Thurman St., Portland, $267,494; Commonwealth Electric Co., Box 2067, Lincoln, Neb., $284,387; Key Construction Co., 1601 Taylor Way, Tacoma, $298,382. Bids opened February 10. WB 2-12. Previous report 1-21

●**SILVER CREEK SUBSTATION—** **Mayfield, Wash.**

Bids will be opened 3 p.m., March 3, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the Silver Creek 20-mva substation, one mi. west of Mayfield, Lewis County, Wash.; Inv. No. 8642. Specifications with above office. $20 deposit. Bid bond 25%.

Quantities: 550 c.y. structural excavation; 135 c.y. reinforced concrete footings; 41,000 lb. steel erection; installation of station equipment; 222 sq. ft. concrete sidewalks; 576 c.y. crushed rock; painting station equipment; 532' French drain; lump sum bids on control house and latrine. SP 2-8

▲**UTILITIES MODIFICATION—** **McChord AFB, Wash.**

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modification of family housing off-site utilities, including sewer pump installation, pumphouse construction and related work, at McChord AFB; ENG-45-108-58-45. Bids opened February 6.

Six bids received. LOW BIDS: The Bay Co., 1215 Center, Tacoma, $7,354; Capital Plumbing and Heating Co., 424 Jefferson, Olympia, $8,218; Kendall Construction Co., 3211 Center St., Tacoma, $9,340. Government estimate, $10,198. SP 2-7. Previous report 1-31

●**ELECTRICAL DISTRIBUTION FACILITIES—** **McChord AFB, Wash.**

Bid opening extended from February 18 to 2 p.m., February 25, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for electrical distribution facilities at McChord AFB; ENG-45-108-58-5. Specifications with above office.
SP 2-11. Previous report 2-1

▲**ELECTRICAL DISTRIBUTION SYSTEM—** **Midway Control Area, Wash.**

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modification and relocation of electrical distribution system, Midway Control Area, Seattle Defense Area, Wash.; ENG-45-108-58-49. Bids opened February 11.

LOW BIDS: Service Electric Co., 12304 32nd N.E., Seattle, $2,330; Electric Associates, Inc., 2911 C. Chandler, Tacoma, $2,989; Cable Construction Co., 1512 Center St., Tacoma, $3,041. Government estimate $2,823.
SP 2-12. Previous report 1-29

▲**SUBSTATION—** **Moses Lake, Wash.**

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 150-mva Potholes substation, about six mi. west of Moses Lake, Grant County, Wash.; Inv. No. 8632. BIDDERS: Power City Electric Co., N. 920 Howard St., Spokane, $133,782; H. B. Nesheim, 6714 36th Ave. S.W., Seattle, $138,238; Power Line Erectors, N. 2018 Waterworks, Spokane, $143,999; The Brandon Co., 6401 Lincoln St., Vancouver, $146,446; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland, and Witzig Electric Co., P. O. Box 292, Corvallis, $157,306; Duke's Electric Co., Inc., Bldg. 35, Pasco Airport, Pasco, $158,906; Kehne Electric Co., N. 416 Helena St., Spokane, $185,579. Bids opened February 7.
WB 2-11. Previous report 2-5

COMMUNICATIONS OUTLET — **Neah Bay, Wash.**
(Estimated cost $32,039)

Construction is scheduled to start February 17 by DelGuzzi, Inc., 1020 E. Front St., Port Angeles, on a remotely controlled airground communications outlet at Neah Bay, for the Civil Aeronautics Administration. The project is part of the CAA's "spider web" of communications around the Seattle Air Route Traffic Control Center. SC 2-11

■**TRANSMISSION, DISTRIBUTION LINES** **Okanogan, Wash.**

Planholders announced for reconstruction of 17 mi. of distribution line in the Okanogan and Omak vicinity and construction of 1.2 mi. of 115-kv transmission line south of Okanogan. Bids will be opened 1 p.m., Feburary 26, by Okanogan County PUD No. 1, W. L. Barbee, manager, Okanogan.

Planholders: R. C. Hughes Co., 2105 N. Airport Way, Spokane; Salmon Bay Electric Co., 4728 Ballard Ave., Seattle; Power City Electric Co., N. 920 Howard St., Spokane;

Tyee Construction Co., 1901 23rd Ave. S., Seattle; Nichols Construction Co., Box 366, Grandview; Power Line Erectors, Inc., N. 2018 Waterworks, Spokane; Duke's Electric, Inc., Bldg. 35, Pasco Airport, Pasco; Kehne Electric Co., Inc., N. 416 Helena St., Spokane; DelMonte Electric Co. of Oregon, Box 510, Oregon City; Witzig Construction Co., 223 S. 4th, Corvallis, Ore.

SP 2-8. Previous report 1-25

▲REHABILITATE DOCK— Olympia, Wash.

Nine bids received by Port of Olympia, Duncan F. Stewart, manager, Foot of N. Washington St., Olympia, for rehabilitation of approximately 4,387 sq. ft. of marina dock at the north end of the port property. Bids opened February 4. TWO LOW BIDS: Hart Construction Co., 3536 E. 11th, Tacoma, $18,000; Kimbel Logging and Construction Co., 707 S. 1st, Shelton, $18,500. HI BID: Einar Johnson Construction Co., Route 4, Box 466, Puyallup, $29,733.

SP 2-7. Previous report 1-23

■ STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced on the six highway construction projects for which bids will be opened 10 a.m., February 18, by Washington State Highway Commission in Olympia.

PAVING, BRIDGE, Alaskan Way Viaduct in Seattle-Hanford St. to W. Dakota St.— Draining, grading, asphaltic concrete and cement concrete paving, installing illumination system, constructing reinforced concrete box girder and steel girder bridge on 0.870 mi. PSH No. 1, King County; FAP No. U-001-3(36).

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Raymond Concrete Pile Co., Portland; Poole, McGonigle & Dick, 6330 N.E. Halsey, Portland; Steel Construction Co. of Oregon, 5300 N.W. Front, Portland; U.S. Steel Corp., American Bridge Division, 309 S.W. 6th, Portland; A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland; Pacific Bridge Co. of B.C., Ltd., 2182 W. 12th, Vancouver, B.C.; L. B. Foster Co., Box 548, Carnegie, Pa.; Fruin-Colnon Contracting Co., 1906 Olive, St. Louis, Mo.; Gate City Steel, Inc., 4000 Warm Springs Ave., Boise, Idaho; Ben C. Gerwick, Inc., 417 Market, San Francisco, Calif.; Line Materials Co., Box 2077, Milwaukee, Wis.; Snook Bros., Box 687, Corvallis, Ore.; Le Boeuf & Dougherty, 3rd and Cutting Blvd., Richmond, Calif.

General Construction Co., 3840 Iowa, Seattle; MacRae Bros., 5900 2nd Ave. S., Seattle; Guy F. Atkinson Co., 341 Skinner Bldg., Seattle; Bethlehem Pacific Coast Steel Corp., Box 3827, Seattle; General Electric Co., Box 1858, Seattle; Green Construction Co., 928 Securities Bldg., Seattle; Isaacson Iron Works, Box 3625, Seattle; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle; Northwest Asphalt Co., 7343 E. Marginal Way, Seattle; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; Rumsey & Co., 3821 Airport Way, Seattle; West Coast Wood Preserving Co., 411 Seneca, Seattle; Fischbach & Moore, 3201 Fremont, Seattle; N. Fiorito Co., Inc., 844 W. 48th, Seattle; Glacier Sand and Gravel, 5975 E. Marginal Way, Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; Van S. McKenny Co., Inc., 104 Wall, Seattle; M. P. Butler, 3419 13th S.W., Seattle; Neeco Electric Contractors, Inc., 616 6th Ave. S., Seattle; Westinghouse Electric Supply Co., 1051 1st Ave. S., Seattle.

R. L. Moss & Co., Box 37, Zenith; Associated Sand and Gravel Co.,6300 Glenwood Ave., Everett; Cable Construction Co., 1512 Center, Tacoma; Peter Kiewit Sons Co., Box 1777, Vancouver; United Concrete Pipe Corp., Box 467, Auburn; Fick Foundry Co., 1005 E. D St., Tacoma; International Paper Co., Longview.

UNDERCROSSING, Burn Bridge Creek— Clearing, draining, grading, asphaltic paving, constructing reinforced concrete box girder, PSH No. 1, Clark County; FAP No. I-001-1(37).

Planholders: Raymond Concrete Pile Co., 2323 N.W. Flanders, Portland, Ore.; Orlando C. Bennard, 222 N.E. Holland, Portland; American Bitumuls and Asphalt Co., Portland; Erland & Blickle, Box 1945, Portland; Hannan Bros. Co., 3525 N.E. Going, Portland; Natt McDougall Co., 824 Pittock Block, Portland; Poole, McGonigle & Dick, 6330 N.E. Halsey, Portland; The United Contracting Co., Box 5075, Portland; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland; Frank Lyons & Co., 5200 N.E. Alberta, Portland; C. J. Montag & Sons, 7805 N.E. Halsey, Portland; Oregon Iron Works, 508 Tillamook, Portland; Valley Construction Co., 6100 N.E. Columbia Blvd., Portland.

Hamilton & Thoms, Box 726, Eugene, Ore.; Lee Hoffman, 415 N.W. Cedar, Beaverton, Ore.; Farwest Steel Co., Box 3025, Eugene; Richard L. Martin Co., Box 482, Oswego, Ore.; Snook Bros., Box 687, Corvallis, Ore.; Peter Kiewit Sons' Co., Box 1777, Vancouver; Klineline Sand and Gravel Co., Route 7, Box 225, Vancouver; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; United Concrete Pipe Corp., Box 467, Auburn; Cascade Olympic Construction Co., Route 2, Box 131, Shelton; Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver; The Hart Construction Co., 3536 E. 11th, Tacoma; Lockyear & White, Inc., Box 687, Longview; L. B. Foster Co., Box 548, Carnegie, Pa.; Ben C. Gerwick, Inc., 417 Market, San Francisco, Calif.; John E. Alexander, Box 3583, Seattle; Allyn & Noah Construction Co., Inc., 14242 Pacific Highway S., Seattle; General Construction Co., Box 3845, Seattle; Harry H. Hawkins, 16274 39th N.E., Seattle.

BRIDGES, Wenatchee River — Construct two reinforced concrete box girder bridges on 0.084 mi. PSH No. 2, Chelan County; FAP No. F-028-1(14).

Planholders: John P. Hopkins Co., Inc., Box 247, Mercer Island; Peter Kiewit Sons' Co., Box 1777, Vancouver; Sather & Sons, N. 1410 Howe, Yardley; Snitily Bros. Construction Co., Box 671, Wenatchee; United Concrete Pipe Corp., Box 467, Auburn; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Louis Elterich Co., Box 868, Port Angeles; Everett McKellar, Box 965, Chelan; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; John E. Alexander, Box 3583, Seattle; General Construction Co., Box 3845, Seattle; Harry Hawkins, 16274 39th N.E., Seattle; Isaacson Iron Works, Box 3625, Seattle; Alton V. Phillips & Associates, 4055 21st W., Seattle.

Hamilton & Thoms, Box 726, Eugene, Ore.; Lee Hoffman, 415 N.W. Cedar, Beaverton, Ore.; Snook Bros., Box 687, Corvallis, Ore.; Hannan Bros. Co., 3524 N.E. Going, Portland, Ore.; Poole, McGonigle & Dick, Portland; Oregon Iron Works, 508 N. Tillamook, Portland; L. B. Foster Co., Box 547, Carnegie, Pa.; Gate City Steel, Inc., 4000 Warm Springs Ave., Boise, Idaho; Le Boeuf - Dougherty Contracting Co., 3rd and Cutting Blvd., Richmond, Calif.

BRIDGES, Green River and Overflow Bridges—Clearing, draining, grading, bituminous surfacing, asphaltic concrete paving, constructing reinforced concrete flat slab bridge and steel truss bridge on 0.606 mi. SSH No. 5-A, King County; a State Project.

Planholders: MacRae Bros., 5900 2nd Ave. S., Seattle; Bethlehem Pacific Coast Steel Corp., Box 3827, Seattle Excavators, Inc., 5756 29th N.E., Seattle; Isaacson Iron Works, Box 3625, Seattle; Northwest Asphalt Co., 7434 E. Marginal Way, Seattle; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; John E. Alexander, Box 3583, Seattle; Allyn & Noah Construction Co., Inc., 14242 Pacific Highway S., Seattle; N. Fiorito Co., Inc., 844 W. 48th, Seattle; Harry H. Hawkins, 16274 39th N.E., Seattle; Paul Jarvis, Inc., 1070 W. Ewing, Seattle; Robert L. Marsh Construction, 5022 38th S.W., Seattle Northwest Construction Co., 3950 6th N.W., Seattle; Olympic Steel Works, 1515 Horton, Seattle; J. A. Troxell, 4006 E. 38th, Seattle; West Coast Construction Co., Inc., 835 W. 48th, Seattle; M. P. Butler, 3419 31st S.W., Seattle; Alton V. Phillips Co., 4055 21st Ave. W., Seattle.

John P. Hopkins Co., Inc., Box 247, Mercer Island; Herman Kathman, Box 55, Kenmore; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; J. M. Bruch Co., Route 3, Box 504, Port Angeles; United Concrete Pipe Corp., Box 467, Auburn; American Pile Driving Co., Inc., Pier 2, Everett; Cascade Olympic Construction Co., Route 2, Box 131, Shelton; Alfred De Coria, Box 241, Auburn; Fick Foundry Co., 1005 E. D St., Tacoma; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; The Hart Construction Co., 3536 E. 11th, Tacoma; Lockyear & White, Inc., Box 687, Longview; R. L. Moss & Co., Box 37, Zenith; Blossom Bros. Logging and Construction Co., Box 637, Suquamish.

Steel Construction Co. of Oregon, 5300 N.W. Front, Portland, Ore.; American Bitumuls and Asphalt Co., Portland; Raymond Concrete Pile Co., 2323 N.W. Flanders, Portland; Pool, McGonigle & Dick, Portland; United States Steel Corp., American Bridge Division, Portland; A. H. Barbour & Son, Inc., Portland; Oregon Iron Works, Portland; Hamilton & Thoms, Eugene; Snook Bros., Box 687, Corvallis; Gate City Steel, Inc., Boise, Idaho; L. B. Foster Co., Box 548, Carnegie, Pa.

PAVING, Coupeville Vicinity — Draining, grading, asphaltic concrete paving 0.973 mi. SSH No. I-D, Island County; a State Project.

Planholders: Associated Sand and Gravel Co., Box 914, Everett; J. M. Bruch Co., Route 3, Box 504, Port Angeles; Morrison-Cecotti, Box 388, Mount Vernon; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Wilder Construction Co., Inc., 1840 State, Bellingham; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; Robert L. Marsh Construction, 5022 38th S.W., Seattle; Excavators, Inc., 5756 29th N.E., Seattle; American Bitumuls and Asphalt Co., Portland, Ore.

STOCKPILING, McAdams Vicinity—Stockpiling maintenance rock, sand, ballast, crushed surfacing and mineral aggregates on State Highways 11-B, 3, and 3-K in Franklin, Garfield, Asotin, Columbia, Walla Walla counties; a State Project. Involves about 84,700 ton crushed materials.

Planholders: Frank G. Bauline, Inc., Box 84, Yardley; Carbon Bros., Box 5025 Station C, Spokane; Sather & Sons, N. 1410 Howe, Yardley; S. D. Spencer & Son, Vancouver; D. A. Sullivan, Box 37, Parkwater Station, Spokane; J. Arlie Bryant, Inc., and Clarence Braden, 3716 Skyview Drive., Spokane; C & E Construction Co., Inc., Box 1545, Yakima; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Clifton & Applegate, Box 8, Yardley; Lake City Gravel and Materials, Inc., Seattle; Ray Weist, Box 191, Yakima; F. H. DeAtley & Co., Box 848, Lewiston, Idaho; J. F. Konen Construction Co., Inc., 713 D St., Lewiston; J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.

DM 2-11. Previous report 1-31

★STATE HIGHWAY PROJECT— Olympia, Wash.

Award announced by Washington State Highway Commission, W. A. Bugge, director, Olympia, for a highway project on which bids opened February 4.

OFFICE BUILDING, Spokane—Constructing a new District No. 6 headquarters office building, Spokane County; a State Project.

AWARD: Sceva Construction Co., 2828 Madelia, Spokane, $282,498 (basic of $281,012 plus alts. 3 and 5).

DE 2-12. Previous report 1-4

●TREATMENT PLANT ADDITION— Omak, Wash.

Bids will be opened 8 p.m., March 3, by Clara Jessup, city clerk, City Hall, Omak, for construction of an addition to the sewage treatment plant at Omak. Specifications with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. $10 deposit.

Lump sum bids will be taken for removal of digester roof; metal pipe fittings, and valves and boxes; digester combination mixer gas holder; electrical.

IG 2-11. Previous report 1-4

●REFRIGERATOR MODIFICATION— Paine AFB, Wash.

Bids will be opened 2 p.m., February 28, by U.S. Air Force, Procurement Office, Paine AFB, for modification of refrigeration in Bldg. Nos. 303 and 511 at the base; Inv. No. 45-602-58-39, Prop. No. PAN 93-57 and 93A-57 (Paine). Bid bond 20%. HH 2-11

■ DREDGING— Port Townsend, Wash.

Planholders announced for dredging of small boat basin area, including removal and disposal of approximately 5,700 c.y. material from a small boat basin by dredging, U.S. Naval Harbor Defense Unit, Puget Sound (Fort Worden), Port Townsend; Spec. No. 12311/57. Bids will be opened 2 p.m., February 19, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle.

Planholders: Manson Construction & Engineering, 5209 E. Marginal Way; American

Pile Driving Co., Inc., Pier 2, Everett; Foss Launch and Tug Co., 225 E. F, Tacoma; John M. Bruch Co., Route 3, Box 504, Port Angeles; West Coast Construction Co., Inc., 835 W. 48th; Cotton Engineering and Ship Building Co., 126 Madison St., Port Townsend; General Construction Co., Box 3328; Pioneer Towing Co., 5001 E. Marginal Way; Bruck Brothers, Route 1, Box 66, Port Angeles; Del Guzzi, Box 891, Port Angeles. Of Seattle except as noted.

PD 2-11. Previous report 1-31

●WATER LINES, SEWERS— Pullman, Wash.

Bids will be opened 2 p.m., February 21, by Board of Regents, 303 Administration Bldg., Washington State College, Pullman, for installation of 3,735' water line and 310' storm sewer to serve the projected plant sciences, veterinary clinic and poultry plant structures at Pullman. Plans with Sherman C. Markley, superintendent of buildings and grounds, WSC, Pullman. $10 deposit.

Plans call for water lines ranging from 12" cast iron pipe to ¾" galvanized iron pipe and appurtenances, and 12" and 8" storm sewer with two new manholes, and raising of three existing manholes.

SC 2-7. Previous report 1-29 Water Mains

●STEEL PIPE SECTIONS— Raymond, Wash.

Bids will be opened 2 p.m., February 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Raymond, 300 steel pipe sections and 230 malleable iron couplings; Inv. No. 8645. Specifications with above office. SP 2-8

●SWAMP ANCHORS— Raymond, Wash.

Bids will be opened 3 p.m., February 20, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering 75 screw type swamp anchors, fob Raymond; Inv. No. 8646. Specifications with above office. SP 2-8

●CRUSHED GRAVEL— Republic, Wash.

Bids will be opened 2 p.m., February 20, by Ferry County Commissioners, Courthouse, Republic, for manufacturing and stockpiling 14,580 c.y. crushed gravel. Specifications with county engineer, above address. SC 2-12

●TRAFFIC LIGHTS, ALARM SYSTEM— Richland, Wash.

Bids will be opened February 18 by Atomic Energy Commission, Box 550, Richland, for miscellaneous electrical construction work, including installation of two traffic lights, two 7,200-volt lines and a fire alarm system, at Richland. Specifications with above office. SP 2-8

★CURB STOPS, CORPORATION STOPS— Seattle, Wash.

Awards announced by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 500 curb stops and 2,600 corporation stops. AWARDS: Western Utilities Supply Co., 5409 Ohio, $1,395; Pacific Water Works Supply Co., 2900 1st Ave. S., $4,480; Hallgren Co., 2900 1st Ave. S., $550. All of Seattle. PD 2-7. Previous report 1-31

●CABLE— Seattle, Wash.

Bids will be opened 10 a.m., February 17, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 15,000' of signal cable. Specifications with above office. PD 2-7

●CONSTRUCT COFFERDAM, INSTALL MAIN, PUMPS— Seattle, Wash.

Bids will be opened 2 p.m., February 19, by E. G. Henry, secretary, Board of Public Works, 512 County City Bldg., Seattle, for construction of a reinforced concrete cofferdam adjacent to north trunk sewer and catcher chamber at Roosevelt Way and Ravenna Blvd., installing 975' of force main, six pumps, and appurtenant work.

Plans and specifications available on and after Februry 10 in room 404 County City Bldg., Seattle. $10 deposit.

Work will include construction of a reinforced concrete cofferdam to be used as a pumping well; installing five pumps in cofferdam, and one pump at Ravenna Blvd. and 16th N.E.; constructing bulkhead in sand catcher chamber; constructing reinforced concrete access chamber; furnishing and installing 975' of 36" force main. PD 2-7

★SEWER— Seattle, Wash.

Award to Murphy Brothers, Inc., 4225 51st Ave. S., Seattle, $27,075, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for construction of a sewer on 6th Ave. W., Seattle, Ord. No. 86105, involving 1,455' of 8" to 21" concrete pipe sewer, 25' of 8" cast iron pipe sewer, miscellaneous work.

PD 2-7. Previous report 1-30

★ALLEY PAVING— Seattle, Wash.

Award to Pacific Construction Co., 3002 16th S., Seattle, $15,025, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing 1,825 sq. yd. cement concrete paving in four alleys in the South Seattle area, Seattle; LID 6166.

PD 2-7. Previous report 1-30

★CABLE REEL TRAILER— Seattle, Wash.

Award to only bidder Truck Equipment Co., 5701 1st St., Seattle $3,264, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one hydraulic cable reel trailer.

PD 2-7. Previous report 1-31

★SOLDER— Seattle, Wash.

Award to Morris P. Kirk & Son, Inc., 3614 Airport Way, Seattle, $1,926, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 4,000 lb. solder. PD 2-7. Previous report 1-30

★SUBSTATION RENOVATIONS— Seattle, Wash.

Award to Shaffer Construction Co., Box 804, Everett, $10,340, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for renovations on the Shoreline Substation at N. 165th and Meridian Ave., Seattle.

PD 2-7. Previous report 1-31

★HYDRAULIC CRANE— Seattle, Wash.

Award to Star Machinery Co., 241 Lander St., Seattle, $11,604, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one hydraulic crane mounted on truck carrier.

PD 2-7. Previous report 1-11

●BRIDGE RECONSTRUCTION— Seattle, Wash.

Bids will be opened 9:30 a.m., February 24 by King County Commissioners, 402 County City Bldg., Seattle, for reconstruction at the Whitney Hill Bridge No. 3027 across Newaukum Creek, Section 28, T. 21 N.R. 6 E.W.M., King County. Plans and specifications with office of D. L. Evans, county road engineer, 905 County City Bldg. and with county treasurer. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities. five precast roadway units; two precast curb units; 45' bridge railing; 50 c.y. crushed stone surfacing; 5.5 c.y. class A concrete; 1,374 lb. reinforcing steel; 40 ton asphaltic concrete plant mix; reset broken piece of wingwall; remove existing structures; grout foundations. DM 2-7

●MOVE, INSTALL ANTENNA— Seattle, Wash.

Bids will be opened 11 a.m., February 18, by Seattle School District No. 1, 815 4th Ave. N., Seattle, for moving antenna from 6770 E. Marginal Way and installing it at Edison Technical School, Broadway and Pine, Seattle. Specifications with purchasing department, of school district. Bid bond 5%. PD 2-8

●ROCK— Seattle, Wash.

Bids will oe opened 9:30 a.m., February 24, by King County Commissioners, 402 County City Bldg., Seattle, for rock requirements for year, 1958. Specifications with King County Purchasing Department, 606 County City Bldg., Seattle. SP 2-8

●COPPER WIRE— Seattle, Wash.

Bids will be opened 10 a.m., February 18, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 200,000 lb. copper wire. Specifications with above address. DM 2-11

CITY LIGHT PLANT EXPANSION— Seattle, Wash.

(Estimated cost $47,000,000)

The Seattle City Light has announced a three-year program for plant expansion, part of which will be financed by a recently approved $20,000,000 revenue bond issue and the remainder by earnings from operations. Following are major projects planned during 1958, 1959 and 1960:

(1) Penstock replacement, automation and modernization at the Cedar Falls plant. (2) Turbine replacement and modernization to increase capacity from the present 132,000-kw by 25,000-kw and 30,000-kw at the Diablo plant. (3) Completion of Gorge High Dam including installation of new turbine runners, modernization of powerhouse; Completion of relocated Newhalem-Diablo Highway; construction of service buildings at Newhalem. (4) Extension of the 23-kv transmission system to increase capacity and integrate the sound end high-voltage receiving substations. (5) Extension of 115-kv transmission system. (6) Conversion of Cedar Falls transmission line to 115-kv; additional transformer banks, bus sections and switchgear in the receiving and major distributing substations at Broad St., Duwamish and Shoreline; converting Canal and Union St. substations from 13-kv to 26-kv. (7) Expansion of the overhead distribution system, extension to 26-kv system, and primary and secondary circuits. SP 2-11

▲STEAM GENERATING PLANT— Seattle, Wash.

Bids received by Board of Regents, Administration Bldg., University of Washington, Seattle, for furnishing and erecting a new steam generating plant capacity of 100,000 lb. per hour (using pulverized coal) or 130,000 lb. per hour (using natural gas). Plans by Boullion & Griffith, consulting engineers, 1411 Fourth Avenue Bldg., Seattle. Bids opened February 10.

Five bids received: Bumstead-Woolford, 1411 Fourth Avenue Bldg. $489,327; C. C. Moore & Co., Smith Tower, $516,812; Combustion Engineering, Inc., Skinner Bldg., $615,973; W. E. Pearson Co., Smith Tower, $626,829; Foster-Wheeler Corp., Vance Bldg., $783,050. Of Seattle.

PD 2-12. Previous report 1-22

★GATE VALVES— Seattle, Wash.

Award to Grinnell Co. of the Pacific, Elliott and Bay, Seattle, $1,819, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 200 gate valves. PD 2-12. Previous report 1-23

★ASPHALTIC CONCRETE PAVING— Seattle, Wash.

Award to T. W. Traverso Construction Co., 11180 E. Marginal Way, Seattle, $9,876, by Boeing Airplane Co., Plant 2, Seattle, for 1,467' of asphaltic concrete paving on East Oxbow Road, Boeing Development Center, one mi. south of Plant 2, Seattle.

SP 2-12. Previous report 1-3

★WASTE SEWER— Seattle, Wash.

Award to L. G. Massart Plumbing and Heating Co., 4501 9th Ave. N.W., Seattle, $6,280, by Boeing Airplane Co., Plant 2, Seattle, for furnishing and installing a process rinse waste line from Material and Fabrication Bldg. to Basic Primary Bldg. at Plant 2, Seattle.

SP 2-12. Previous report 10-30

▲OVERPASS— Seattle, Wash.

Bids received by Board of Regents, University of Washington, Seattle, for construction of a 10' wide, pre-stressed concrete overpass structure over Montlake Blvd., Seattle, about 400 yd. north of Edmundson Pavilion overpass. Bids opened February 11.

Plans by John Skilling, structural engineer, Lloyd Bldg., Seattle.

Seventeen bids were received. LOW BIDS: Hugh S. Ferguson Co., 1927 1st Ave. S., Seattle, $64,450 (two identical structures), $35,650 (one structure); Puget Construction Co., Inc., Seattle, 1811 Bush Place, $68,219, $41,609. HI BID: John E. Alexander, 17925 15th N.W., Richmond Beach, $97,777, $52,651. PD 2-12. Previous report 2-8

★GROUND CONTROL APPROACH— Seattle, Wash.

Award to T. W. Traverso Construction Co., 11180 E. Marginal Way, Seattle, $14,989, by Boeing Airplane Co., Plant 2, Seattle, for construction of a ground control approach facility to replace the existing temporary facility at the south end of Boeing Field. SP 2-12. Previous report 12-18

●FLASHING BEACON LIGHTS— Seattle, Wash.

Bids will be opened 10 a.m., February 20, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 22 flashing beacon lights. Specifications with above office. DM 2-12

●HAULING— Seattle, Wash.

Bids will be opened 10 a.m., February 17, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., for loading and hauling approximately 22,000 yards of material from Shilshole Bay project to the new Interbay Playfield. Specifications with above office. DM 2-12

▲SEWAGE TREATMENT PLANT, SEWERS— Seattle, Wash.

Bids received by Rainier Vista Sewer District, 11846 Des Moines Way, Seattle, for construction of trunk and lateral sewers (Units A and B), effluent sewer and sewer outfall (Unit C), sewage lift stations (Unit D), sewage treatment plant (Unit E). Bids opened February 10. Plans by Hammond, Collier & Isaac, consulting engineers, 4010 Stone Way, Seattle. The apparent low bids follow, ranging from a low of $111,049 to a high of $153,853 for Unit A, $75,642 to $91,598 for Unit B, $501,991 to $663,376 for Unit C, $29,687 to $43,944 for Unit D, and $199,000 to $254,750 for Unit E. LOW BIDS—Unit A: Murphy Brothers, Inc., 4225 51st S., $111,049; West Coast Construction Co., Inc., 835 W. 48th, $125,597. Unit B: Murphy Brothers, Inc., $75,642; Matt Malaspina & Co., 1901 23rd S., $76,036. Unit C: National Construction Co., 153 S. 160th, $501,991; Thorburn & Logozo, 4608 36th S.W., $507,737. A combined bid for Units A, B, and C, was submitted by Milone & Tucci, 3215 S. M. St., Tacoma, $733,038. Unit D: T. W. Traverso Construction Co., 11180 E. Marginal Way, $29,687; Big Bend, Inc., 712 Randolph Place, $35,800. Unit E: Pacific Mechanical Constructors, Inc., Lloyd Bldg., $199,000; G. R. Leischner, 1201 W. 92nd, $200,659. A combined bid for Units D & E was submitted by B. F. Turnbull, Inc., 4351 Leary Way, $239,980. Of Seattle.

PD 2-21. Previous report 1-23

SUBSTATION, TRANSMISSION LINE— Selah, Wash.

(Estimated cost $491,000)

Construction underway on a 7,500-kva substation at 10th and Pear streets in Selah, for Pacific Power and Light Co., L. W. Dick, local manager, 7 N. 3rd St., Yakima. The substation will supply the power for the last ring in the transmission from Selah across Lookout Point down across the Naches River to N. 16th Ave. and River Road in Yakima. Estimated cost of the substation is $210,000, with the 115,000-volt transmission line costing $281,000. This project is part of the $2,130,000 PP&L program for Yakima County during 1958. IG 2-11

●SWEEPER— Tacoma, Wash.

Bids will be opened 11 a.m., February 17, by City Clerk, City Hall, Tacoma, for furnishing one self-propelled street sweeper. Specifications with above office. SC 2-12

★PAVING— Tacoma, Wash.

Award to Lige Dickson Co., 3315 S. Pine, Tacoma, $14,733 (LID 4606) and $37,278 (LID 4622), by City Council, City Hall, Tacoma, for constructing asphalt pavement, concrete curb and gutter on Alki St., Orchard Road and N. 14th, LID No. 4606, and for asphalt pavement, concrete curb and gutter and storm drainage on nine other city streets, LID No. 4622.

SP 2-7. Previous report 1-28

●TRACTOR, SCRAPER— Tacoma, Wash.

Bids will be opened 11 a.m., February 17, by City Clerk, 305 City Hall, Tacoma, for furnishing one track mounted tractor and one cable mounted scraper (alternate for used scraper). Specifications with above office. SC 2-8

BRIDGE REPLACEMENT— Tacoma, Wash.

The City Council, City Hall, Tacoma, has appropriated $65,000 to finance replacement of the Fairbanks St. Bridge over the T St. Gulch in Tacoma. The bridge, which gives access to Roosevelt Heights on McKinley Hill, wil be replaced with the surplus remaining from the 1954 bond issue for street and bridge improvements. SC 2-12

●MOORING BASIN— Tokeland, Wash.

Bids will be opened 8 p.m., February 27, by Port of Willapa Harbor Commission, James Bean, manager, Raymond, for construction of a mooring basin at Tokeland. Plans and specifications were prepared by William J. Murphy, Jr., engineer, Aberdeen.

Work involves construction of about 500' bulkhead; 8 acre clearing; moving two buildings; construction of about 3,300' sand dike. The bulkhead is designed to retain material to be dredged from the mooring basin site under a separate contract by Corps of Engineers. Plans also call for installation of about 850' port-furnished floats. SC 2-7

★CULVERT CROSSING—Tolt River, Wash.

Award to Matt Malaspina, 1901 23rd Ave. S., Seattle, $20,656, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for construction of a concrete culvert pipe crossing on State Highway 2-A, Tolt River Pipeline, Ord. No. 86596, involving 266' of 84" concrete culvert pipe, excavation and backfill, gravel in trench. PD 2-7. Previous report 1-30

■BANK PROTECTION— The Dalles Dam, Wash.

Planholders announced for construction of bank protection work consisting of a concrete wall on the north shore of The Dalles Dam on the Columbia River; CIVENG-35-026-58-110. Bids will be opened 2 p.m., February 18, by Corps of Engineers, Portland office, 628 Pittock Block, Portland.

Planholders: Riverside Construction Co., P.O. Box 3853; Hamilton & Thoms, Box 726, Eugene; Pantovich Construction Co., 975 Imperial Drive, Salem; A. C. Bardi, 8105 S.E. Duke St.; J. Bacaloff Co., 6009 N.E. 60th Ave.; Contractors & Excavators, Inc., P.O. Box 12, Warden; George Chicha Co., E. 2917 Sharp, Spokane; O. C. Bennard, 222 N.E. Holland St.; Hannan Bros. Co., 3524 N.E. Going St.; John Kovtynovich, 395 Skyline Loop, Eugene; Snook Bros., Box 687, Corvallis; Floyd R. Grubb, 1305 S. 20th, Salem; C. H. Strong, Box 366, Eugene; Zuber Bros., 2800 S.E. 28th Ave.; General Construction Co., P.O. Box 3860; Wayne Construction Co., 3810 Stone Way, Seattle.

Pettijohn Engineering Co., Inc., 4145 N.E. Cully Blvd.; Harney Homes, Inc., Burns; Otis Williams & Co., P.O. Box 1193, Kennewick; West Coast Construction Co., Inc., 835 W. 48th St., Seattle; Montag-Halvorson, Box 4, The Dalles; Curtis Gravel Co., P.O. Box 106, Spokane; John M. King Co., 1601 Taylor Way, Tacoma; Schrader Construction Co., 3030 S.E. Hawthorne Blvd.; Cherf Bros., Inc., and Sandkay Contractors, Inc., P.O. Box 938, Ephrata; Oregon Iron Works, 508 N. Tillamook. Of Portland except as noted.

WB 2-7. Previous report 2-5

●SWITCHBOARD PANELS— Vancouver, Wash.

Bids will be opened 2 p.m., February 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering switchboard panels fob Ross Spur, Vancouver; Inv. No. 8649. Specifications with above office. SP 2-[illegible]

GRADING, DRAINING, SURFACING— Yakima, Wash.

(Estimated cost $70,000)

Working drawings are underway by Sam Hobbs, city engineer, City Hall, Yakima, for grading, draining, ballasting and surfacing with asphaltic concrete the alley between 4th Ave. and Maple St., Summitview Ave. from 40th to 42nd Ave., east half of 38th Ave. and 2nd and Webster Ave., south half of Pierce Ave., Mead Ave. from 1st to 2nd Ave. and 34th Ave. to Walnut St. in Yakima. Bids will be called in the spring. Also included will be construction of concrete curb and gutters on 39th Ave. IG 2-[illegible]

●ELECTRICAL DISTRIBUTION SYSTEM— Yakima, Wash.

Bids will be opened 1 p.m., February [illegible] by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for installation of secondary electrical distribution system at Coffin Ranch, Yakima Firing Center, Yakima; Inv. No. AVI-45-016-58-110. Plans with above office. Bid bond 20%. SP 2-[illegible]

STREET LIGHTS— Yakima, Wash.

(Estimated cost $28,000)

Preliminary surveys underway by Pacific Power and Light Co., L. W. Dick, local manager, 7 N. 3rd St., Yakima, for installation of about 150 new street lights in new residential sections on the west side of Yakima, and in other towns throughout the county. IG 2-[illegible]

IDAHO

PLAYGROUND— Boise, Idaho

Final drive is being sponsored by the Boise Optimist Club, Herman Reaves, Boise, for equipment necessary to complete the [illegible] acre Camel's Back playground being developed at 13th and Heron streets in Boise. Needed in this final portion of the project are grass seed, a sprinkling system, material for five tennis courts baseball, softball and football equipment, picnic tables and shrubs. The park will include picnic grounds, combination football-baseball field, tennis courts, playground with swings, slides, merry-go-round, monkey bars for small children and horseshoe pits. Leveling of the site has been completed by MacGregor-Triangle Co., [illegible] Sunrise Rim, Boise, and Nelson Sand and Gravel Co., Federal Way, Boise. SC 2-[illegible]

▲DEEP WELL TURBINE PUMP— Boise, Idaho

Eight bids received by City Purchasing Agent, City Hall, Boise, for furnishing deep well turbine pump for the well at Camel Back Park, Boise. Bids opened February [illegible] TWO LOW BIDS: H. J. Wood Co., 1[illegible] Main, Boise, $2,617; Henry L. Johnson Co., 2211 N. 26th, Boise, $2,692. HI BID: Parma Water Lifter Co., Parma, $3,098.

SP 2-8. Previous report 2-[illegible]

●STATE HIGHWAY PROJECTS— Boise, Idaho

Bids will be opened 2 p.m., February [illegible] by Idaho Department of Highways, 603 Main St., Boise on construction of five highway projects. Plans and specifications with above address. $2 charge. Certified check, cashier's check or bid bond 5%.

SEAL COAT, STOCKPILE, Idaho City Northeast—Seal coating 16.1 mi. State Highway 21, Idaho City Northeast, and furnishing crushed gravel and cover coat material in stockpiles, Boise County; ST-M-3291(506) and Stockpile No. 216.

Quantities: 5,000 ton crushed gravel surfacing in stockpile; 53,000 gal. RC-5 asphalt road material for seal coat; 2,650 ton cover coat material class 3; 3,000 ton same in stockpile.

STOCKPILES, District No. 4—Furnishing gravel and cover coat material in various stockpiles in Clearwater, Lewis, Nez Perce and Latah counties; Stockpile Nos. 141, 180, 245 and 246. Completion time July 13.

Quantities: 45,000 ton crushed gravel surfacing in stockpile; 14,900 ton cover coat material in stockpile.

SEAL COAT, STOCKPILES, Various locations—Seal coating 6.977 mi. State Highway 80, Menan-Lorenzo and 15.948 mi. of State Highway 22, Lidy Hot Springs-Dubois; furnishing crushed gravel and cover coat material in various stockpiles in Bonneville, Clark, Fremont and Jefferson counties; ST-M-8746(501) and Stockpile Nos. 223, 224, 225 and 229. Completion time August 15.

Quantities: 70 M gal. watering; 13,050 c.y. stripping material deps.; 89,400 gal. RS-2 asphalt road material for seal; 7,000 ton cover coat material in stockpile; 3,770 ton cover material, class 3; 17,000 ton crushed gravel surfacing in stockpile.

ROADWAY, SURFACING, BRIDGE, County Roads—Constructing roadway, bituminous surface treatment and 120' concrete bridge on 2.089 mi. west of Gooding Road, and roadway and bituminous surface treatment on 1.903 mi. southwest of Gooding Road, Gooding County; FAP Nos. S-2782(1), S-2774(1). Completion time 100 working days.

Quantities: 13,080 c.y. unclassified excavation; 710 c.y. structure excavation; 36,650 c.y. borrow; 15,300 ton select borrow; 10,-950 Y.U. haul; 7,345 ton crushed gravel base; 31,300 gal. liquid asphalt road material; 1,573 ton cover coat material; 406 c.y. concrete; 57,155 lb. metal reinforcement; 975 lb. structural steel; 450' steel beam handrail; 2,892' pipe culvert; 166' bituminous coated corrugated metal pipe siphon; 310' of 12" concrete irrigation pipe.

SEAL COAT, STOCKPILE, Oxford, Red Rock Section—Seal coating 9.026 mi. State 35 and furnishing cover coat material in stockpile, Bannock and Franklin counties; ST-M-1726(503) and Stockpile No. 134. Completion time July 15.

Quantities: 5,200 c.y. stripping materials sources; 35,000 gal. RS-2 asphalt road material for seal coat; 1,760 ton cover coat material class 3; 2,000 ton same in stockpile.
DM 2-12

DISTRIBUTION LINE— Huntley, Mont.

The Rural Electrification Administration has approved a $609,000 loan to Yellowstone Valley Electric Cooperative, Huntley, to finance construction of 27 mi. of distribution line and certain system improvements; Proj. Montana-95V Yellowstone. Improvements include two mi. of tie line; 46 mi. of 50-kv and 69-kv transmission line; three new substations; increased capacity of transformers and/or customer services; conversion of 26 mi. of existing line and remodeling present headquarters facilities. SC 2-8

▲TRANSMISSION LINE—Idaho Falls, Idaho

Bids received by Bureau of Reclamation, Fairgrounds, Box 937, Boise, for construction of 1.5 mi. of 12.5-kv distribution line with two communication cables, Palisades Project, near Idaho Falls, Bonneville County, Idaho; DC-5005. Bids opened February 3. LOW BIDS: Jelco, Inc., Salt Lake City, Utah, $25,040; Union Electric Co., Phoenix, Ariz., $27,634; Cache Valley Electric Co., Logan, Utah, $34,013.
SP 2-11. Previous report 12-31

STOCKPILING AGGREGATES— Idaho Falls, Idaho

(Estimated cost $70,000)

Bids will be called soon by Atomic Energy Commission, Box 1221, Idaho Falls, for production and stockpiling of aggregates at the Central Facilities Area, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-942. Specifications with above office. Work includes production and stockpiling of approximately 58,000 ton washed and graded concrete aggregates including concrete sand; approximately 3,000 ton ½" cover coat material; approximately 300 ton washed and screened roofing gravel. SP 2-12

STREET IMPROVEMENT—Kalispell, Mont.

A petition has been presented to H. H. Hunt, city clerk, City Hall, Kalispell, asking for a bond election on an $110,000 bond issue to finance improvement of Idaho St. in Kalispell. The $110,000 would cover the city's share of the $440,000 improvement project.
SC 2-8. Previous report 10-30

●SEWAGE TREATMENT PLANT— Lewiston, Idaho

Bids will be opened 8 p.m., March 10, by City Recorder, City Hall, Lewiston, for construction of primary sewage treatment plant and pumping station (Contract No. 1), a 36" Clearwater River crossing (Contract No. 2) and interceptor sewers (Contract No. 3) in Lewiston. Plans with Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, (P.O. Box 508). $50 deposit. Bid bond 5%. Contractors may bid one, two or all contracts.

CONTRACT No. 1—Primary sewage treatment plant, with capacity of 3½ mgd, and pumping station, 30' in diameter, 43' deep and with capacity of 10 mgd, will be located directly across Clearwater River to north of Lewiston. Lump sum bids will include all equipment. Approximately 1,350 c.y. of concrete will be required for the plant and pumping station. CONTRACT No. 2—Clearwater River crossing, 2,000' long and 36" in diameter, will extend from 5th and B streets in Lewiston to the pumping station. Lump sum bid includes control manholes and connection to the pumping station. CONTRACT No. 3—Two interceptor sewers are required, one extending from the Lewiston Orchards area northwest to the river crossing, and the other from North Lewiston to the pumping station. Quantities: 30,000 c.y. excavation and backfill; 250' long, 24" diameter tunnel at Lewiston-Clarkston Bridge; 6,255' of 24" cylinder, sewer or cement asbestos pipe; 2,065' of 21", 5,355' of 15", 835' of 12" and 1,600' of 36" sewer pipe; 4,622' of 18", 1,600' of 36" and 1,050' of 36" cast iron cylinder pipe. WB, DR 2-8. Previous report 2-1

★MOTOR CONTROLLERS— Minidoka Project, Idaho

Award to Cutler-Hammer, Inc., Milwaukee, Wis., $11,181 (freight prepaid), by Bureau of Reclamation, Box 937, Fairgrounds, Boise, for 14 motor controllers for 14 deep well pumping units and three spares, Minidoka Project, Idaho; Inv. No. 100S-320. SP 2-7. Previous report 12-31

SEWER SYSTEM IMPROVEMENTS— Moscow, Idaho

(Estimated cost $295,000)

Plans have been completed by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, for construction of a sewage disposal plant and trunk line additions for the City of Moscow. Plans are now being reviewed by the Public Health Service, an a bid call is expected in the near future. Bids will be received by R. G. Ferdekind, city clerk, City Hall, Moscow. WB 2-11. Previous report 12-6

■HOT WATER DISTRIBUTION MODIFICATION— Mountain Home AFB, Idaho

Planholders announced for expansion of existing high temperature hot water distribution system, installation of apparatus in equipment rooms, and incident modification of existing utilities, structures and plant at Mountain Home AFB; ENG-45-164-58-23. Bids will be opened 2 p.m., February 26, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.

Planholders: E. V. Lane Corp., Box 417, Palo Alto, Calif.; Babbitt Construction Co., Inc., Box 4038, Boise; Intermountain Co., Box 1869, Boise; Mechanical Equipment and Engineering, Inc., Box 1277, Boise; Nottingham Construction Co., Box 1545, Boise; Watkins Construction Co., Box 1786, Boise; Max A. Boesiger, 185 E. 2nd North, Mountain Home; Detweiler Bros., Inc., Box 870, Twin Falls; C. W. Schmid Plumbing and Heating, Box 1528, Missoula, Mont.; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, Ore.; Teller Construction Co., 845 N. Graham, Portland; Leslie Miller, Inc., Box 3338, Fort Worth, Texas; Hansen-Niderhauser, Inc., 16 Kensington Ave., Salt Lake City, Utah; Larsen & Co., 365 W. 4th South, Salt Lake City; Midgley-Huber, 44 W. 8th South, Salt Lake City.

Rainier Mechanical Contractors, Inc., Box 2027, Parkland, Wash.; James Smyth Plumbing and Heating Co., N. 216 Division St., Spokane; Warren, Little & Lund, W. 120 2nd Ave., Spokane; The Tide Co., 1512 Center St., Tacoma; Central Heating and Plumbing Co., 510 S. 1st St., Yakima; C. A. Hooper Co., 2030 Pennsylvania Ave., Madison, Wis.; University Plumbing and Heating Co., 3941 University Way, Seattle; R. E. Ziebarth, 21205 Bolsa St., Torrance, Calif.; Industrial Contractor's Co., Inc., Box 42, Idaho Falls; Joy & Cox, Inc., 415 Judge Bldg., Salt Lake City, Utah; Cascade Constructors, Inc., Box 1768, Spokane, Wash.; Stearns-Roger, 40 Richards St., Salt Lake City; S. E. Dockstader, Inc., Munsey Bldg., Washington, D.C.; Beaumont Birch Co., Schaff Bldg., 1505 Race St., Philadelphia, Pa. SP 2-12. Previous report 1-25

FLOOD CONTROL— Pocatello, Idaho

Federal funds have been withdrawn for improvement of the Portneuf Channel through the city of Pocatello to eliminate floods. Project has been cancelled.
SP 2-11. Previous report 1-3

●OUTFALL SEWER, DIKE RIPRAP— Sandpoint, Idaho

Bids will be opened 8 p.m., February 24, by City Council, Floyd A. Perks, mayor, City Hall, Sandpoint, for construction of 256' of 36" outfall sewer and placing of 1,400 c.y. riprap on the dike around the treatment plant at Sandpoint. Specifications with Arthur Tiggelbeck, city engineer, Farmin Bldg., Sandpoint. $10 deposit. Completion time May 15, 1958. SC 2-8

MONTANA

★TRACTOR, LOADER, RAKE— Billings, Mont.

Award to Mills Implement Co., 413 N. 25th St., Billings, $2,991, by City Park Commission, City Hall, Bililngs, for purchase of one 1958 tractor with enclosed hydraulic mechanism with constant draft control and live hydraulic system with constant running hydraulic pump; one industrial type loader with rated load of not less than 1,000 lb., and one tiller rake with 13 scarifying tines. Bids opened Febrnuary 5. 2ND LOW BID: Cooper-Hustad Co., 3301 1st Ave. S., Billings, $3,145. HI BID: Industrial Equipment Co., 1800 6th Ave. N., Billings, $3,566.
EE 2-12. Previous report 1-21

★TELEPHONE FACILITIES— Circle, Mont.

Award to Main Electric, Inc., Box 946, Minot, N. Dak., $117,362, by Mid-Rivers Telephone Cooperative, Inc., Circle, for construction of 255.4 mi. of telephone line in McCone, Richland and Roosevelt counties, Mont.; Montana 512D. Plans by Associated Engineers, Inc., 1127 Alderson Ave., Billings.
SP 2-12. Previous report 1-28

★SEWERS, WATER SYSTEM— Deer Lodge, Mont.

Awards announced by City Council, City Hall, Deer Lodge, for construction of a water line extending along Montana Ave. between Stark and Center streets and for installation of sanitary sewers, SID No. 96, Deer Lodge. AWARDS—WATER LINE: Donald Mikelson, Deer Lodge. SEWER: Philip Berg, Deer Lodge. No amounts were released. SC 2-12. Previous report 1-30

WATER SUPPLY WELL— Havre AF Station, Mont.

Bids will be opened about March 11 with definite date to be established by addendum, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for drilling and casing (10' diameter) to a depth of approximately 1,500', including developing and testing, Water Supply Well No. 4, Havre Air Force Station; ENG-45-108-58-63. Specifications with above office. SP 2-11

●WATER STORAGE— Helena, Mont.

Bids will be opened May 7 by Montana Water Conservation Board, Helena, for Cataract Creek storage projects in Madison County, and for raising the Dead Man's Basin Dam in Wheatland County, Mont. Specifications with above office. Increasing the dam's height will provide 20,000 acre-feet more reservoir storage. SC 2-12

■ **FUEL STORAGE TANK, UTILITIES—**
Malmstrom AFB, Mont.

Planholders announced for base aviation fuel storage at Malmstrom AFB; ENG-45-164-58-22. Bids will be opened 2:30 p.m., February 25, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla.

Planholders: Macco Construction Co., 14409 S. Paramount Blvd., Paramount, Calif.; Nottingham Construction Co., Box 1545, Boise, Idaho; Detweiler Bros., Inc., Box 870, Twin Falls, Idaho; Holland Construction Co., 1121 S. 3rd, Bozeman; J. E. Beaulaurier & Sons, Box 2016, Great Falls; Hungry Horse Builders Supply, 4747 2nd Ave. N., Great Falls; Nilson-Smith Construction Co., Box 1147, Great Falls; Robertson & Cave, Inc., Box 1488, Great Falls; Sletten Construction Co., Box 1188, Great Falls; The Carroll Co., Inc., 1826 N.E. 40th Ave., Portland; Phoenix-Matthews, Inc., 1040 N.E. Baldwin St., Portland; J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore.; Leslie Miller, Inc., Box 3338, Fort Worth, Texas; Hammond Iron Works, Western Division, Box 310, Provo, Utah; Larsen & Co., 365 W. 4th South, Salt Lake City, Utah; Chicago Bridge and Iron Co., 1318 4th Ave., Seattle; A. J. Popp Construction Co., W. 205 29th, Spokane; H. Halvorson, Inc., Box 6, Yardley; Chaney & Hope, 6414 Maple, Dallas, Texas; E. J. Jones, 32 Rittenhouse Place, Ardmore, Pa.; Petroleum Combustion and Engineering Co., 11941 Wilshire Blvd., Los Angeles, Calif.; Graver Tank and Mfg. Co., Inc., 155 Montgomery St., San Francisco, Calif.; B. W. Wilkins, 5943 Faculty Ave., Long Beach, Calif.; Cummings Boat Co., 3017 Ruston Way, Tacoma.

SP 2-8. Previous report 1-22

★**ROAD REPAIR— Malmstrom AFB, Mont.**

Award to City Constructors, Inc., Box 1341, Great Falls, $197,700, by U.S. Air Force, Procurement Office, Malmstrom AFB, for construction of an extension of the perimeter road and for repairing sections of the existing perimeter road and other streets at the base; Inv. No. 58-12.

SC 2-8. Previous report 2-4

■ **AIRCRAFT FUELING SYSTEM—**
Malmstrom AFB, Mont.

Planholders announced for aircraft hydrant fueling system at Malmstrom AFB; ENG-45-164-58-21. Bids will be opened 2 p.m., February 25, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla.

Planholders: E. V. Lane Corp., Box 417, Palo Alto, Calif.; Empire Gas Engineering Co., 7 Baltimore Place N.W., Atlanta, Ga.; Intermountain Co., 1322 Grove St., Boise, Idaho; Detweiler Bros., Inc., Box 870, Twin Falls, Idaho; Christensen Plumbing and Heating, Box 2056, Billings; J. E. Beaulaurier & Sons, Box 2016, Great Falls; Leigland Co., Box 1862, Great Falls; Lewis Construction Co., 923 10th Ave. N., Great Falls; Nilson-Smith Construction Co., Box 1147, Great Falls; Rainbow Electric Co., 2220 River Drive, Great Falls; Robertson & Cave, Inc., Box Box 1188, Great Falls; Utility Builders, Inc., Box 1154, Great Falls; C. W. Schmid Plumbing and Heating, Box 1528, Missoula; The Carroll Co., Inc., 1826 N.E. 40th Ave., Portland, Ore.; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland; Phoenix-Matthews, Inc., 1040 N.E. Baldwin St., Portland.

Randsdell Construction Co., 270 Meadows Bldg., Dallas, Texas; Leslie Miller, Inc., Box 3338, Fort Worth, Texas; Gibbons & Reed Co., Box 2429, Salt Lake City, Utah; Rainier Mechanical Contractors, Inc., Box 2027, Parkland, Wash.; Urban, Inc., Box 1142, Tacoma, Wash.; H. Halvorson, Inc., Box 6, Yardley, Wash.; C. A. Hooper Co., 2030 Pennsylvania Ave., Madison, Wis.; Joe Fagenstrom & Son, 1701 Smelter Ave., Black Eagle; Hood Northwest Pipeline Co., Box 552, Boise; E. J. Jones, 32 Rittenhouse Place, Ardmore, Pa.; Petroleum Combustion and Engineering Co., 11941 Wilshire Blvd., Los Angeles, Calif.; Puget Sound Fabricators, Inc., 3670 E. Marginal Way, Seattle; A & A Construction Co., 3720 W. Broadway, Box 1597, Muskogee, Okla.; Chaney & Hope, 6414 Maple, Dallas, Texas; R. E. Ziebarth, 21205 Bolsa St., Torrance, Calif.; Lowe Construction Co., Box 1956, Billings. SP 2-11. Previous report 1-23

PAVING, LIGHTING, RUNWAY BARRIERS— Malmstrom AFB, Mont.

Bids will be opened about March 20 with definite date to be established by addendum, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for taxiway-runway access shoulder paving, lighting, marking and seeding, and runway arresting barriers at Malmstrom AFB; ENG-45-164-58-31.

Work includes construction of about 46,600 sq. yd. of 2" thick asphaltic concrete surfacing and appurtenant excavation work and base and leveling course construction and priming; removal of existing lighting fixtures; installation of about 80 semi-flush taxiway lights (Government-furnished); furnishing and installing about 13,000' of No. 8 five-kv insulated cable in conduit and trenches; installation of about 3,500' of 4" conduit; construction of 6- and 16-way duct banks; construction of runway arresting barriers using Government- and Contractor-furnished materials; about 1,500 sq. yd. taxiway painting and about 10 acre dryland grass seeding.

SP 2-12

■ **AIRCRAFT FUELING SYSTEM—**
Malmstrom AFB, Mont.

Sub bids will be received until February 21 by Hood Construction Co., Box 662, Twin Falls, Idaho, for aircraft hydrant fueling system at Malmstrom AFB; ENG-45-164-58-21. Bids will be opened 2 p.m., February 25, by Corps of Engineers, Walla Walla District, Bldg. 602, City-County Airport, Walla Walla. SP 2-12. Previous report 1-23

● **SEWAGE COLLECTION SYSTEM, PUMPING PLANT— Missoula, Mont.**

Bids will be opened 7:30 p.m., M.S.T., March 3 by City Council in the City Fire Hall, W. Pine and Stevens streets, Missoula for construction of a sewage collection system and sewage pumping plant in Low's and Daly's additions in Missoula. Plans and specifications with Clark & Groff Engineers, at either of the following offices: 324 Triangle Drive, Salem, Ore. or 408 Woody St., Missoula. $35 deposit. Certified check 10%. Proposals will be received by the city clerk, City Hall, Missoula.

Quantities: 34,795' trench excavation, backfill; 5,000' of 4", 31,757' of 8", 940' of 10", 1,436' of 12" and 2,212' of 15" sewer; 91 manholes; one pumping plant.

Bids were opened in September 1957 for a sewage collection system and pumping plant, and subsequently rejected. Eight proposals were received at that time ranging from low bids of $220,979 (concrete pipe sewers), $234,694 (clay pipe sewers), $15,750 (pumping station) to high figures of $332,940, $406,699, $17,752.

DM 2-12. Previous report 10-5, Sewer System.

▲ **EXCAVATING, PAVING— Sidney, Mont.**

Bids received by City Council, City Hall, Sidney, for excavating, laying gravel base, paving with asphaltic mix, installing concrete curb and gutter in city streets in the area of SID No. 43. Specifications by L. W. Burdick, consulting engineer c/o Williams Webster, Box 1134, Williston, N. Dak. Bids opened February 3. BIDS: Albert Lalonde Construction Co., S. Roosevelt Ave., Sidney, $25,292 and $23,107 (bids vary with size of chipped gravel to be used); Richardson Construction Co., Box 513, Miles City, $30,847; Billings Blacktop Co., West of Billings, $29,029.

EE 2-11. Previous report 1-14

ALASKA

● **TELEPHONE SYSTEM EQUIPMENT— Anchorage, Alaska**

Bids will be opened 2 p.m., March 13, in the office of George Shannon, city manager, City Hall, Anchorage, for engineering, furnishing and installing central office equipment for the telephone system of Anchorage, including three exchanges and modifications and additions to existing exchange (Sched. 1), furnishing 6,300 black desk telephones and 300 black wall telephones (Sched. 2), furnishing cable (Sched. 3) and furnishing hardware and miscellaneous items (Sched. 4). Specifications with C. A. Hostetler, purchasing agent, City Hall, Anchorage. Certified check or bid bond 10%.

SCHED. 1: Involves three new sub-exchanges to be built, as follows—(1) Fairfax community dial office, 36th Ave. and Minnesota Drive, Spenard; (2) Federal community dial office, Primrose St. and DeBarr Road, Anchorage; (3) Diamond community dial office, near intersection of Sand Lake Road and Seward Highway, south of Anchorage. Also includes modifications and additions to Broadway Exchange, 13th Ave. and E St., Anchorage, and furnishing and installing central office equipment in new exchanges as listed above.

AL 2-7

★ **MOBILE RADIO EQUIPMENT— Anchorage, Alaska**

Award to Communications Equipment and Service Co., 110 E. 6th Ave., Anchorage, $2,863, by City Council, City Hall, Anchorage, for furnishing mobile radio equipment for installation in city vehicles.

AL 2-11. Previous report 2-7

★ **TELEPHONE INSTRUMENTS— Anchorage, Alaska**

Award to Kellogg Switchboard and Supply Co., Burlingame, Calif., $10,820, by City Council, City Hall, Anchorage, for furnishing 400 telephone instruments, the initial order in requirements for a $3,000,000 telephone expansion program in the Anchorage area.

AL 2-11. Previous report 2-7

▲ **TELEPHONE INSTRUMENTS— Anchorage, Alaska**

Six bids received by George Shannon, city manager, City Hall, Anchorage, for furnishing 400 telephone instruments, the initial order in requirements for a $3,000,000 tele-

SUB BIDS WANTED

Aircraft Fueling System, Malmstrom AFB, Mont., ENG-58-21

Sub bids to be received through February 21

by

Hood Construction Co.

P.O. Box 662, Twin Falls, Idaho

Phone Redwood 3-5391

Marquardt Jet Laboratory, Ogden, Utah, Spec. MJL 500-4

Sub bids to be received through February 19

by

Hood Northwest Pipeline Co.

Box 552, Boise, Idaho

Phone 2-6535

phone expansion program in the Anchorage area. Bids opened January 31. TWO LOW BIDS: Kellogg Switchboard and Supply Co., Burlingame, Calif., $10,820; Graybar Electric Co., King and Occidental, Seattle, $10,880. HI BID: Automatic Electric Sales Corp., 55 New Montgomery, San Francisco, Calif., $11,640. AL 2-7

AMOBILE RADIO EQUIPMENT—
Anchorage, Alaska

Two bids received by George Shannon, city manager, City Hall, Anchorage, for furnishing mobile radio equipment for installation in city vehicles. Bids opened January 31. ONLY BIDS: Alaska Electronics Equipment, Anchorage, $2,800 (total comprised of no bid on Part 1 and $2,800 on Part 2); Communications Equipment and Service Co., 110 E. 6th, Anchorage, $2,863 ($363, Part 1, $2,500, Part 2). AL 2-7

●ROADS, STREETS, GROUNDS—
Fort Richardson, Alaska

Bid opening extended from February 11 to 2 p.m., February 18, by Corps of Engineers, Alaska district, in the Seattle office, 4735 E. Marginal Way, Seattle, for asphalt concrete paving complete with earthwork in various parking areas areas and driveways, construction of barbed wire and chain link fencing, portland cement concrete slabs, sidewalks, curbs and gutters, culverts, topsoiling and seeding, exterior electrical distribution (mainly floodlighting) and other minor items of work, 5th Increment, Fort Richardson; ENG-95-507-57-17.
SP 2-8. Previous report 2-6

■DISCHARGE LINE REALIGNMENT—
Haines, Alaska

Planholders announced for realignment of shore discharge lines, POL Terminal at Haines, Alaska; ENG-95-507-58-3. Bids will be opened 2 p.m., A.S.T., February 19, by Corps of Enginers, Alaska office, D-E Bldg., Anchorage.

Planholders: Urban Plumbing and Heating Co., 2904 S.W. 1st Ave., Portland; Lent's, Inc., 279 4th St., Bremerton; Alaskan Plumbing Supply Co., 907 Arctic Bldg., Seattle; W. R. Grasle Co., 437 N.W. 16th Ave., Portland; A & A Construction Co., 3720 W. Broadway, Muskogee, Okla.; Henkels & McCoy Contractors, 6100-14 N. 20th St., Philadelphia, Pa.; Engineering Limited Pipe Line Co., 2021 Minor N., Seattle; Century Metal Works, 7126 W. Marginal Way, Seattle; City Electric of Anchorage, 2915 13th S.W., Seattle; Phoenix-Matthews, Inc., 1040 N.E. Baldwin, Portland; Pacific Mechanical Constructors, 1009 Lloyd Bldg., Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; Chandler Plumbing and Heating Co., 5409 Russell Ave., Seattle; Mid-Mountain Contractors, Inc., 1310 Airport Way, Seattle; Empire Gas Engineering Co., 7 Baltimore Place N.W., Atlanta, Ga.; Clem Pilip, c/o Hungerford Hotel, Seattle; H. D. Fowler Co., Inc., 901 Lane St., Seattle; Macri Construction Co., Box 1268, Ketchikan, and 300 3rd Ave. W., Seattle. SP 2-12. Previous report 1-28

WHARF RECONSTRUCTION—
Ketchikan, Alaska
(Estimated cost $300,000)

Bids will be called about February 25 by 17th Coast Guard District, Public Works Office, Juneau, for reconstruction of a wharf at the Coast Guard base in Ketchikan. Work will involve construction of a permanent pier to replace an existing timber wharf which is partly destroyed.

Quantities: 12,000 sq. ft. timber-concrete composite deck (using treated timber); 1,000' steel-concrete composite caps (using wide-flange steel beam encased in concrete); 120 steel bearing piles (10" and 12" concrete-filled); 200' treated fir piles in a fender pile and camel log system; 200' utility lines; 14'x100' small boat float.
SC 2-12

■FIRE PROTECTION SYSTEM—
Whittier, Alaska

Planholders announced for construction of a fire protection system, involving 240' cast iron pipe, hydrant pits and valve manholes, valves and assemblies and circulating pumps at Whittier; ENG-95-507-58-26. Bids will be opened 2 p.m., February 20, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage.

Planholders: Century Metal Works, 7126 W. Marginal Way, Seattle; Fairbanks, Morse & Co., 668 Lane St., Seattle; Lent's, Inc., 279 4th St., Bremerton, Wash.; Sentry Automatic Sprinkler Co., 2716 A St., Tacoma; Phoenix-Matthews, Inc., 1040 N.E. Baldwin, Portland, Ore.; Alaska Plumbing Supply Co., 907 Arctic Bldg., Seattle; Wilco Fire Equipment Co., 4427 Wallingford, Seattle; City Electric of Anchorage, 2915 13th Ave. S.W., Seattle; M. B. Hinds Automatic Sprinkler System, 2605 S.W. 3rd Ave., Portland; Grinnell Co. of the Pacific, 3101 Elliott Ave., Seattle; Commercial Steel Fabricators, 2929 16th S.W., Seattle.
SP 2-12. Previous report 1-23

NORTHERN CALIFORNIA

●WATER DISTRIBUTION SYSTEM, DINING HALL— Hamilton AFB, Calif.

Bids will be opened 2 p.m., March 5, by Corps of Engineers, 180 New Montgomery St., San Francisco, for construction of a water distribution system, including fire hydrants, trenching, and restoration of surfaces including concrete pavement removal and replacement, and construction of a concrete frame, steel roof Airmen's Dining Hall including earthwork, seeding, walks, retaining wall, bituminous paving and exterior electrical, gas, water sewer and storm drainage facilities at Hamilton Air Force Base, Marin County, Calif.; Ser. No. ENG-04-203-58-314. Plans and specifications available at above address. Bid bond 20%. Completion time: 360 days.

Quantities—Water Distribution System: 3,540' cast iron water line, 6", 8", 12"; 2,175' water line, 6" and 12"; 15 gate valve and box, 6", 8", and 12"; 13 fire hydrants; 3 modification to existing hydrants; connect existing fire hydrant to new 6" water line; connect existing 4" water line to new 6" water line. RM 2-15

★STREET RECONSTRUCTION—
Martinez, Calif.

Award to Martin Brothers, Box 638, Concord, $22,150, by Contra Costa County Board of Supervisors, Martinez, for reconstruction of California Ave. from Harbor St. to Station 65+50, in Pittsburg, Calif. Bids opened February 4. OTHER LOW BIDS: Lee J. Immel, 13555 San Pablo Ave., San Pablo, $22,259; O. C. Jones and Sons, 4th and Cedar Sts., Berkeley, $23,844.
RM 2-15. Previous report 1-25

★DRAINAGE SYSTEM—
Menlo Park, Calif.

Award to C. J. Wood, Inc., Box 203, Redwood City, $34,332, by City Council, 701 Laurel, Menlo Park, for construction of a drainage system. The system will drain about 250 acres bounded by El Camino Real, Oak Grove Ave., Middlefield Road and the Linfield Oaks area in Menlo Park. Wood submitted the lowest of 14 bids on the job.
RC 2-15

★REINFORCED CONCRETE GIRDER BRIDGE— Modesto, Calif.

Award to Thomas Construction Co., 4665 E. Hedges Ave., Fresno, $171,171, by Stanislaus County Office Bldg., Modesto, for construction of the Gomes Bridge project, on Claus Road between Gomes Road and Scenic Drive, Stanislaus County. Work includes grading and surfacing about 0.265 mi. with plantmixed surfacing, and constructing a reinforced concrete girder bridge. RM 2-15. Previous report 2-8

★FLOOD CONTROL PROJECTS—
Oakland, Calif.

Two contract awards have been announced by Alameda County Board of Supervisors, Court House, Oakland, for flood control projects in the Newark, West Hayward and Cherryland areas. 1ST AWARD: Vincent Rodrigues, 202 Jackson, Hayward, $154,508, for construction of an earth channel 2,000' long through the Hayward Airport from Sulpher Creek to Hesperian Blvd., and installation of 6,900' of drainage pipe along A St., Royal Ave., Grand Ave. and Laurel Ave. in West Hayward and Cherryland. 2ND AWARD: A. J. Peters & Son, 534 Stockton Ave., San Jose, $27,181, for installation of new concrete pipe in the Newark area and improvement of a present drainage ditch to provide a complete drainage system from the Eastshore Freeway to the slough at Dumbarton Rd. RC 2-15

●STREET IMPROVEMENTS—
Oakland, Calif.

Bids will be opened 12:30 p.m., February 27, in office of Gladys H. Murphy, city clerk, City Hall, Oakland, for improvement of Franklin St. and 22nd St. at Broadway, and for improvement of Water St. between Broadway and Washington St. and Washington St. between 1st and Water St., and a portion of 1st St. east of Washington St. in Oakland. Specifications available from Engineering Dept., above address. $5 deposit. Cashier's check, certified check or bid bond 10%. Completion time—60 days. RC 1-15

★STATE HIGHWAY PROJECT—
Sacramento, Calif.

Award announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids were opened January 8.

X-CAL-24-E—About 5.9 mi. to be graded and surfaced with plantmixed surfacing on cement treated base and imported base material, between 2.5 mi. east of Murphys and 3.5 mi. west of Big Trees, Calaveras County. AWARD: Claude C. Wood Co., 696 E. Lockeford St., Lodi, $484,963.
PB 2-15. Previous report 1-11

★PAVING, SEWERS, WATER DISTRIBUTION SYSTEM— Sacramento, Calif.

Award to J. R. Reeves, Box 1072, Sacramento, $46,429, by City Council, City Hall, Sacramento, for improvement of Wentworth Ave. from Monterey Way to Freeport Blvd.; Res. 3208. Work includes excavation and grading, asphaltic concrete paving, curbs and gutters and concrete sidewalks.
PB 2-15. Previous report 2-8

■STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Planholders announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids will be opened February 26.

I-MEN-1-I—A four-lane highway, about 2.8 mi., to be constructed by grading and paving with plantmix surfacing on cement treated base and drainage facilities to be installed, about 12 mi. northerly of Laytonville, between 0.2 mi. north of Farmhouse Inn and 1 mi. north of Tan Oak Park, Mendocino County.

Planholders: Rockport Redwood Co., Box 97, Cloverdale; Mercer Fraser Co., Inc., 2nd and Commercial Sts., Eureka; Isbell Construction Co., Box 2351, Reno, Nev.; Peter Kiewit Sons Co., 405 E. Main, Medford, Ore.; Macco Corporation, 14409 S. Paramount Blvd., Paramount; Charles L. Harney, Inc., 575 Berry St., San Francisco; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco; M. W. Brown, Box 837, Redding; M J B Construction Co., Box 7, Stockton; Stolite Inc., 8451 San Leandro St., Oakland.

II-SHA-20-RDG—Approaches to be graded and surfaced with plantmix surfacing on cement treated base, about 0.2 mi., and a bridge to be constructed, in Redding on Eureka Way between Court St. and California St., Shasta County.

Planholders: Ben C. Gerwick Inc., 417 Market, San Francisco; Peter Kiewit Sons Co., 405 E. Main, Medford, Ore.; Osborn Construction Co., Box 1034, Redding; Bo-Son, Inc., 840 Sutter Ave., Palo Alto; Wixson and Crowe, Inc., Box 799, Redding; George Pollock Co., Box 903, Sacramento; Gardner and McCall, Inc., 1282 E. 32nd St., Long Beach; Erickson, Phillips and Weisberg, Box 338, Concord; Lee Arnald, Inc. and Action Contractors, Inc., 580 Bosworth St., San Francisco; G. S. Herrington, Box

708, Auburn; John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley.

III-SAC-11-SAC,B—Furnish and install lane control traffic signal system on Folsom Blvd. at Brighton Underpass, Sacramento County.

Planholders: R. Flatland, 1205 Harrison St., San Francisco; Fischbach and Moore, Box 1271, Pittsburg.

IV-NAP-49-D,B,A—Furnish and install a two-phase traffic actuated signal system and highway lighting on Route 49 at Trancas Road-Redwood Road, Napa County.

Planholders: R. Flatland, 1205 Harrison, San Francisco; Fischbach and Moore, Box 1271, Pittsburg; Marshall Electric Co., 1701 Industrial Road, San Carlos; Bay Western Electric Construction Co., Box 447, Concord; L. H. Leonardi Construction Co., 771 Francisco Blvd., San Rafael; Abbett Electric Corp., 85 Federal St., San Francisco; Stanley Pearce Electric Co., 1808 Spring Road, Vallejo; Howard D. Day, 1071 Evans Ave., Napa. PB 2-15. Previous report 2-1

●SEWAGE PUMPING PLANT—
Sacramento, Calif.

Bids will be opened 5 p.m., February 27, by City Council, City Hall, Sacramento, for construction of an underground sewage pumping plant at 61st and S Sts., Sacramento. Plans with E. A. Fairbairn, city engineer, City Hall. PB 2-15

★TEST HOLE DRILLING—
Sacramento, Calif.

Award to Processed Diamond Bit and Tool Co., 66 Ritch, San Francisco, $11,017, by State Department of Water Resources, Room 401, Public Works Bldg., Sacramento, for drilling test holes for exploration of a proposed dam site at Freemans Crossing on Middle Yuba River, about 16 mi. north of Nevada City, Yuba and Nevada counties, Calif. PB 2-15. Previous report 2-8

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★STATE HIGHWAY PROJECT—
Sacramento, Calif.

Award announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids were opened January 29.

IV-S.M.-68-SM—Bus turn-out to be constructed by grading and surfacing, sidewalks to be constructed and a pedestrian bridge and stairways to be constructed, in San Mateo at the Third Ave. Interchange, San Mateo County. AWARD: Charles S. Moore, 2045 Redbush Terrace, San Jose, $37,500. PB 2-15. Previous report 2-1

●STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Additional bids to be opened 2 p.m., March 12, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

II-TEH-1078—Widen three bridges and construct a bridge on Gardener Ferry Road, across overflow channels southwest of Vina, Tehama County.

III-SAC,PLA-3,17-B,A,RSV — Prepare and plant about 12 mi. of roadside areas between west of Fulton Ave. and East Roseville Overcrossing, Sacramento and Placer counties.

II-SIS-1089—Construct three bridges on west side road between Callahan and Cedar Gulch, Siskiyou County.

PB 1-15. Previous report 2-1

■STATE HIGHWAY PROJECT—
Sacramento, Calif.

Additional planholders announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids will be opened February 19.

III-YOL-50-E,F—A two-lane highway to be graded and surfaced with plantmix surfacing on cement treated base and a portion of the existing highway to be widened and surfaced with plantmix surfacing on cement treated base and existing surfacing, about 3.9 mi. in net length, at two locations between east side of Yolo Bypass and Broderick, Yolo County.

Planholders: J. R. Reeves, Box 1072, Sacramento; Brighton Sand and Gravel Co., Box 7001, Perkins; Frederickson Bros., 1259 65th St., Emeryville; Granite Construction Co., Box 900, Watsonville.

PB 2-15. Previous report 2-8

■DRILLING TEST HOLES—
Sacramento, Calif.

Planholders announced by State Department of Water Resources, Room 401, Public Works Bldg., Sacramento, for drilling test holes for exploration of a proposed dam site and tunnel at French Creek, about 20 mi. northeast of Oroville in Butte County, Calif. Bids to be opened February 19.

Planholders: Butler Drilling Co., Box 735, Alpine; Boyles Bros. Drilling Co., 1321 S. Main, Salt Lake City, Utah; Beymers Well Service, Rt. 2, Yuba City.

PB 2-15. Previous report 2-8

CONCRETE PAVING, WATER DISTRIBUTION SYSTEM— Sacramento, Calif.

Bids received January 8 were rejected by Sacramento County Board of Supervisors, 215 County Court House, Sacramento, for improvement of South Land Park Hills Subdivision Unit No. 21, Sacramento County, including clearing and grubbing, excavation, concrete paving, concrete curbs, gutters, and sidewalks, storm drains, sewers, sewage pumping plant, and water distribution system. Low bid submitted was $334,978.

PB 2-15. Previous report 1-11

●PETERSON TRACT IMPROVEMENT—
Sacramento, Calif.

Bids will be opened 10 a.m., February 19, by Sacramento County Board of Supervisors, 215 County Court House, Sacramento, for improvement of Peterson Tract No. 1 in Sacramento County. Plans available from Joseph Spink, engineer, 907 5th St., Sacramento. $10 deposit.

Quantities: clearing and grubbing; 12,000 c.y. roadway excavation; 2,640 c.y. roadway fill; 7,100' concrete curb and gutter; [illegible] cast iron gutter drain; 128,040 sq. ft. of 3" asphaltic concrete pavement, 4" crusher run base; 408' corrugated metal pipe, bit liner, 54", 14 gage; 958' concrete pipe, 12" and 15"; 250' vitrified clay pipe, 6"; 28' corrugated metal pipe, 10" and 8", 16 gage; 125' metal guard railing; 135 ton crushed rock; remove and salvage existing water pump and [illegible] well; water distribution system complete.

PB 2-15

★PARKING LOT— Sacramento, Calif.

Award to J. R. Reeves, Box 1072, Sacramento, $17,772, by State Department of Public Works, Administration Bldg., 7th, Sacramento, for construction of a parking lot for the Department of Veterans Affairs in Sacramento.

RM 2-15

▲CORPORATION YARD—
San Francisco, Calif.

Bids received by the San Francisco Recreation and Park Commission, McLaren Lodge, Fell and Stanyan Sts., Golden Gate Park, San Francisco, for construction of a corporation yard in Golden Gate; Contract No. 236. Bids opened February 4. LOW BIDS: Payne Construction Co., 626 Louisiana St., Oakland, $138,700; Barrett Construction Co., 1800 Evans Ave., San Francisco, $146,966; A. M. Hardy, 736 Clementina St., San Francisco, $148,013.

RM 2-15. Previous report 1-2

▲AIRPORT RUNWAY FILL—
San Francisco, Calif.

Bids received by San Francisco Public Utilities Commission, Room 287, City Hall, San Francisco, for fill for runway extensions at San Francisco International Airport (Airport Dept. Contract No. 213). Bids opened February 6. LOW BIDS: Piombo Construction Co., Box 935, San Carlos, $935,500; McCammon-Wunderlich Co., Box 359, Palo Alto, $974,000; Macco-Morrison-Knudsen, 14409 S. Paramount Blvd., Paramount, $1,064,350.

RM 2-15. Previous report 1-2

●GAP HOMING FACILITY—
San Francisco, Calif.

Bids will be opened February 21 by Civil Aeronautics Administration, Procurement Branch, Box 45007, Airport Station, 5651 W. Manchester Ave., Los Angeles, for relocation of San Francisco Gap "H" Homing Facility, San Francisco; Prop. No. 4-58-90. Plans and specifications available from above address. Bid bond 10%. Completion time—30 days.

RM 2-1

●SPRINKLER SYSTEM—
Stockton, Calif.

Bids will be opened 5 p.m., February 1[illegible] by City Council, City Hall, Stockton, for installing an automatic lawn sprinkler system in Sherwood Forest Park in Stockton. Plans and specifications available from city clerk or city engineer, above address. Cash, cashier's check, certified check or bid bond 10%. Completion time—45 days.

RC 2-1

★STREETS, CURBS, SIDEWALKS—
Stockton, Calif.

Award to A. Teichert and Son, Inc., Box 1118, Stockton, $16,471, by City Council, City Hall, Stockton, for constructing curbs, gutters, and sidewalks and paving streets in portions of Fair Oaks North and Victory Park Villas in Stockton, Proj. No. [illegible]

RM 2-15. Previous report 2-[illegible]

▲SEWERAGE COLLECTION SYSTEM—
Weaverville, Calif.

A low bid of $307,924 was submitted by John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley, to the Weaverville Sanitary District, Weaverville, Calif., for constructing a sewerage collection system. The project includes about 38,000' of asbestos cement sewer lines and house connections to property lines. Completion time is 300 days. Bids on this job were previously opened on October 18, 1957, but at that time all bids were rejected as too high.

RC 2-15

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

ELEMENTARY SCHOOL ADDITION
BIDS CLOSE 8 P.M., FEBRUARY 20
Redondo, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Directors, Federal Way School District No. 210, Redondo, King County, Washington, in the office of Mr. Kenneth C. Jones, Superintendent, Federal Way Schools, Redondo, Washington, until 8:00 p.m., Pacific Standard Time, Thursday, February 20, 1958 for the Construction of an Addition to Lakeland Elementary School, Redondo, Washington, for Federal Way School District No. 210, Redondo, Washington.

Bids received after the time fixed for opening will not be considered. Combined bids will be received for General Construction; Plumbing, Heating and Ventilating; and Electrical Work.

Drawings, specifications and forms of contract documents may be obtained from the office of John W. Maloney, Architect, A.I.A., 754 Central Building, Seattle 4, Washington, upon receipt of $50.00 deposit.

Drawings, specifications and forms of contract documents may be examined at the office of Mr. Kenneth C. Jones, The Associated General Contractors, 215 West Harrison Street, Seattle, Washington, and the Plan Bureau, 2413 Western Avenue, Seattle, Washington.

The amount of deposit for documents will be returned to each bidder upon the return of said documents in good condition within thirty days after the date of opening bids.

The character and amount of security to be furnished by said bidder with his bid is stated in the contract documents. The Owner reserves the right to reject any and all bids, and to waive informalities.

No bidder may withdraw his bid after the hour set for opening thereof or before award of contract unless said award is delayed for a period exceeding thirty (30) days.

Kenneth C. Jones, Superintendent
Federal Way School District No. 210
Redondo, King County, Washington

6035—2-4, 11, 18

EAST INTERSTATE BRIDGE
BIDS CLOSE 9 A.M., MARCH 27
Portland, Ore. and Vancouver, Wash.
NOTICE TO CONTRACTORS

Time and Place of Receiving Bids: Sealed bids for the work described below will be received by the State Highway Commission of the State of Oregon in The Queen's Room, Imperial Hotel, Portland, Oregon, at 9:00 a.m., Thursday, March 27, 1958.

Type of Project: This is a cooperative project to be financed and built under a tri-party agreement between the States of Oregon and Washington, acting through their respective State Highway Commissions, and the Washington Toll Bridge Authority. By authority of this agreement, all matters pertaining to furnishing plans and specifications to bidders and receipt of proposals are being handled by the State Highway Commission of the State of Oregon, address: State Highway Building, Salem, Oregon.

Description of Work: The work for which bids are to be received consists of the following work on the East Bridge over the Columbia River on the Pacific Highway in the vicinity of Portland, Multnomah County, Oregon, and Vancouver, Clark County, Washington.

Substructure: Reinforce and raise five existing piers, remove entirely one existing pier and raise only one existing pier.

Superstructure: Remove two existing 265-foot steel spans and replace with one new 531-foot steel span, remove one existing 265-foot steel span and replace with concrete viaduct, raise all spans to new grade line corresponding to new West Bridge grade line, redeck completely two existing steel spans, remove existing counterweight cables and place new cables, make other minor revisions to machinery and electrical systems and perform incidental and miscellaneous work as required by the plans and specifications.

Quantities: The work involves the following approximate quantities: Shoring and Cribbing; 6,900 cubic yards structural excavation; 239,000 linear feet timber piling; drive 468 piles, 2,590 cubic yards seal concrete; 7,540 cubic yards Class "A" concrete; 779,000 pounds metal reinforcement; 31,000 pounds tie rods; remove 2,750 cubic yards concrete; remove 1,600 tons structural steel; 1,831,000 pounds structural steel; 25 tons A-C paving; 75,000 pounds counterweight wire rope; 90,000 pounds castings; 540 linear feet metal rail; 200 square yards concrete slab slope protection riprap and 34,000 tons pier protection riprap.

Wage Rates: In accordance with the provisions of Chapter 39.12 of the Revised Washington Statutes, the contracting parties hereto have ascertained the general prevailing rates of wages applicable to the work to be done within the State of Washington to be as follows:

Hourly Minimum Wage Rate—Clark County

$2.92	Adnum, Yeager or Similar Type Spreaders
2.74	Air Compressor
2.86	Air Compressor, over 1,000 C. F. Stationary
2.98	Any Machine Not Classified
2.92	Asphalt Plant Engineer-Operator
2.86	Batch Plant Operator
3.20	Blade Operator, Power, over 50 H.P.
2.96	Blade Operator, Power, 50 H.P. & Under
2.64	Blade Operator (Pull Type)
2.74	Burnerman on Drier, Fireman
2.74	Cement Hog
3.28	Clamshell Dredge
3.20	Combination Batch & Mixer Operator (Multiple Units of 3 Mixers or More)
2.64	Concrete Batch & Wet Mix, Operator
2.82	Concrete Mixer, 1- to 5-Bag Capacity
2.98	Concrete Mixer, 5-Bag Capacity & Over
3.04	Concrete Mixer, Dual
3.04	Concrete Road Paver
3.28	Cranes, Locomotive, Whirley, Gantry, Hammerhead
2.92	Crusher Plant Operator
3.28	Derrick Operator, Live Boom
2.98	Drills, Churn & Core Drill
2.98	Earth Boring Machine
2.98	Elevating Grader Operator
2.74	Finish Machine Operator
2.64	Fireman, Dredge, Floating Derrick, Retort, Shovel
3.04	Generator Plant Operator, Diesel-Electric
2.64	Greaser on Equipment Spread
3.10	H.D. Mechanic or Welder
2.58	H.D. Mechanic Helper
2.86	Hoist, Single Drum
3.20	Hoist, Two or More Active Drums on Hoist
3.16	Mixermobile
2.52	Oiler on Crane, Dragline & Shovel
3.20	Piledriver Engineer
2.68	Power Loader Operator, Bucket Elevator
3.16	Power Shovels, Draglines, Cranes, under 1 Cu. Yd.
3.28	Power Shovels, Draglines, Cranes, 1 Cu. Yd. & Under 5 Cu. Yds.
3.68	Power Shovels, Draglines, Cranes, 5 Cu. Yds. & Over
2.74	Pugmixer or Box Operator
2.52	Pumpman, under 4 In.
2.74	Pumpman, 4 In. & Over
2.64	Road Roller, Grading & Surfacing
2.98	Road Roller, Finishing High-Type Pavement
2.68	Scoopmobile & Sim. Type Mach., 1½ Yd. & Under
2.98	Scoopmobile & Sim. Type Mach., over 1½ Yd.
2.74	Screed Operator
2.64	Stationary Drag Scraper Operator
3.10	Surface Heater & Planer
3.10	Tractor Tandem Carry-All
2.86	Tractor, 50 H.P. & Under, Incl. Traxcavator
3.10	Tractor, over 50 H.P.
2.96	Tractor 2 or 4 Wheel with Scraper (50 H.P. & Under)
3.20	Tractor 2 or 4 Wheel with Scraper (Over 50 H.P.)
2.86	Trenching Machines, 7 Ft. Depth Capacity—Mfgrs. Rating
2.98	Trenching Machines, over 7 Ft. Capacity—Mfgrs. Rating
2.64	Truck Crane Oiler-Driver
2.50	Concrete Buggies, Power Operator
2.60	Dumptors
2.50	Greaser & Tiremen
2.50	Lift Jitney or Handy Andy, All Sizes
2.55	Oil Distributor Driver & Leverman
2.50	Side, End & Bottom Dump Trucks Incl. Semi Trucks & Trains, 6 Yds. and Under
2.60	Side, End & Bot. Dump Truck Incl. Semi. Truck & Train, over 6 and Incl. 10 Yds.
2.80	Side, End & Bot. Dump Truck Incl. Semi Truck & Train, over 10 and Incl. 20 Yds.
2.90	Side, End & Bot. Dump Truck Incl. Semi Truck & Train, over 20 and Incl. 30 Yds.
3.00	Side, End & Bot. Dump Truck Incl. Semi Truck & Train, over 30 Yds.
2.50	Solo Flatbed & Misc. Body Trucks, O to & Incl. 4 Tons
2.50	Solo Flatbed & Misc. Body Trucks, over 4 Tons & Incl. Semi-Trailer and Truck and Trailer not to Exceed 10 Tons
2.50	Transit Mix or Wet Mix Trucks, 3 Yds. & Under
2.60	Transit Mix or Wet Mix Trucks, over 3 Yds.
2.55	Trucks, Semi-Trailer, & Truck & Trailer, over 10 Tons Incl. Low Bed
2.50	Truck Helper, Steady
2.80	Two-Wheeled Power Tractor with Trailer, 9 Yds. & Under
2.90	Two-wheeled Power Tractor with Trailer, over 9 Yds. & Incl. 20 Yds.
3.00	Two-Wheeled Power Tractor with Trailer, over 20 Yds.
2.50	Warehousemen, Warehouse Parts & Tool Men
2.70	Asphalt Rakers
2.40	Asphalt Plant Oilers
2.40	Asphalt Spreaders
2.40	Batch Weighman, Broomers, Cement Buckers, Concrete Buggymen, Puddlers, Rodders, Rubbers (Not Fin.), Spreaders, Curing, Sprayman & Joint-Dowel-Tie Bar Setters
2.40	Brush Burners
2.40	Car Loaders & Choker Setters
2.40	Car & Truck Loaders & Road Pump Tenders
2.40	Crusher Feeders, Fine Graders, Stockpilers
2.40	Culverts, Hand Labor, & Sewer Laborers
2.70	Drills, More Than 350 C. F. of Air
2.40	Dumpers, Road Oiling Crews
2.40	Dumpmen, Grading Crews
2.40	Flagmen, Traffic
2.55	Form Strippers, Swinging Stage
2.55	Jackhammer & Power Tool Operators, Incl. Chipping Guns, Paving Breakers, Vibrator Operator—Other Than Paving
2.70	Powder-man
2.70	Power Saw Operator, Bucking & Falling

2.55 Ribbon Setters, Head
2.40 Riprap Man on Hand-Placed Riprap
2.40 Slopers
2.40 Timber Buckers & Fallers
2.55 Timber Fallers & Buckers, in Production of Merchantable Logs
2.40 Vibrator Operator, Paving Only, Incl. Sidewalks & Curbs
2.90 Carpenters, Journeymen
3.00 Cement Mason
3.25 Ironworker, Structural & Ornamental
3.05 Ironworker, Reinforcing
3.00 Pilemen, Bridgemen, Wharfbuilders
3.10 Pile Boom Man
3.00 Piledrivermen Riggers, Burnerman & Welders
3.05 Stationary Power Saw Operator
3.50 Bricklayers (Clark)
3.20 Electrical Workers (Clark)
2.90 Painter, Brush (Clark)
3.025 Painter, Spray (Clark)
3.025 Painter, Structural Steel (Clark)
3.025 Sandblaster (Clark)

Rates of wages applicable to the work to be done within the State of Oregon shall comply with Oregon laws.

Prequalification of Bidders: Prequalification of bidders will be required in accordance with the provision of Oregon Revised Statutes 279.010 to 279.024, inclusive, and Chapter 47.28.070 of the Revised Washington Statutes.

Plans and Specifications: Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon.

Plans and specifications may be inspected at the same place and may be obtained by elegible bidders upon payment of $2.00 per set.

Plans and specifications may be inspected at the office of the Associated General Contractors at Portland, Oregon; Seattle, Tacoma and Spokane, Washington; Boise, Idaho; and San Francisco and Los Angeles, California.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the States of Oregon and Washington.

H. B. Glaisyer, Secretary,
ORE. STATE HIGHWAY COMMISSION
WASH. STATE HIGHWAY COMMISSION
WASH. TOLL BRIDGE AUTHORITY
6040—2-8

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., FEBRUARY 18
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, February 18, 1958, until 10 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for item No. 1.

The improvements for which bids will be received follow:

1. Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Cement Concrete, Installing an Illumination System and Constructing a Reinforced Concrete Box Girder and Steel Girder Bridge on 0.870 mile of Primary State Highway No. 1 in King County, ALASKAN WAY VIADUCT IN SEATTLE - HANFORD STREET TO WEST DAKOTA STREET, FAP No. U-001-3(36), involving about 2,400 cubic yards of Common Excavation, 25,200 cubic yards of Sand Borrow, 2,280 cubic yards of Crushed Surfacing and Prime Coat Aggregate, 16 tons of Asphalt Cement, 2,200 tons of Asphaltic Concrete, 7,861 square yards of Cement Concrete Pavement, 6,224 linear feet of Precast Concrete Curb, 2,408 linear feet of Cement Concrete Curb, 3,887 linear feet of Extruded Traffic Curb, 10,185 linear feet of Concrete Pipe, 468 linear feet of Rubber Joint Concrete Pipe, 548 linear feet of Iron Pipe, 273 linear feet of Beam Guard Rail, 22,337 cubic yards of Concrete, 6,082,000 pounds of Steel Reinforcing Bars, 8,240 linear feet of Standard Bridge Railing, 2 lump sum bids for Structural Steel (about 628,700 pounds), 260 MBM of Treated Timber and Lumber, 18,000 linear feet of Treated Timber Piling, 114,700 linear feet of Untreated Timber Piling, 18,416 linear feet of Concrete Piling, a lump sum bid for an Illumination System and other items.
2. Clearing, Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Constructing a Reinforced Concrete Box Girder Bridge on Primary State Highway No. 1 in Clark County, BURNT BRIDGE CREEK UNDERCROSSING, FAP No. I-001-1(37), involvink about 16,370 cubic yards of Common Excavation and Borrow, 5,150 tons of Crushed Surfacing and Ballast, 8 tons of Asphalt Cement, 80 cubic yards of Prime Coat Aggregate, 1,145 tons of Asphaltic Concrete, 1,792 linear feet of Cement Concrete Gutter, 453 linear feet of Cement Concrete Curb, 675 linear feet of Concrete Pipe, 153 linear feet of Metal Pipe, 750 linear feet of Beam Guard Rail, 21 Guide Posts, 694 cubic yards of Concrete, 93,840 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 1,140 cubic yards of Concrete and 372,000 pounds of Steel Reinforcing Bars), 909 linear feet of Standard Bridge Railing, 10,000 linear feet of Concrete Piling, 700 linear feet of Steel Piling and other items. Minimum Wage Rates for this project have been predeterimned by law and are set forth in the bid proposal.
3. Constructing Two Reinforced Concrete Box Girder Bridges on 0.084 mile of Primary State Highway No. 2 in Chelan County, WENATCHEE RIVER BRIDGE, FAP No. F-028-1(14), involving about 1,065 cubic yards of Concrete, 93,000 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 2,200 cubic yards of Concrete and 580,000 pounds of Steel Reinforcing Bars), 1,752 linear feet of Standard Bridge Railing, a lump sum bid for Structural Steel and other items.
4. Clearing, Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment, Pacing with Asphaltic Concrete and Constructing a Reinforced Concrete Flat Slab Bridge and a Steel Truss Bridge on 0.606 mile of Secondary State Highway No. 5-A in King County, GREEN RIVER AND OVERFLOW BRIDGES, a State Project, involving about 15 acres of Clearing, 80,540 Cubic yards of Common Excavation and Borrow, 6,550 cubic yards of Selected Roadway Borrow, Crushed Surfacing, Crushed Cover Stone and Prime Coat Aggregate, 33 tons of Asphalt Cement, 1,635 tons of Asphaltic Concrete, 1,680 linear feet of Asphaltic Concrete Curb, 574 linear feet of Metal Pipe, 954 linear feet of Concrete Pipe, 556 linear feet of Beam Guard Rail, 110 Guide Posts, 712 cubic yards of Concrete, 142,640 pounds of Steel Reinforcing Bars, 360 linear feet of Standard Bridge Railing, 2 lump sum bids for Structural Steel (about 438,000 pounds), a lump sum bid for Cast Steel, 4,800 linear feet of Concrete Piling and other items.
5. Draining, Grading, Surfacing and Paving with Asphaltic Concrete on 0.975 mile of Secondary State Highway No. 1-D in Island County, COUPEVILLE VICINITY, a State Project, involving about 15,060 cubic yards of Common Excavation and Borrow, 9,800 cubic yards of Selected Roadway Borrow, Crushed Surfacing and Prime Coat Aggregate, 13 tons of Asphalt Cement, 1,4[illegible] tons of Asphaltic Concrete, 200 linear [illegible] of Metal Pipe, 147 Guide Posts and [illegible] items.
6. Stockpiling Maintenance Rock, Sand, Ba[illegible]last, Crushed Surfacing and Mineral Ag[illegible]gregates on State Highways Numbers 1[illegible]3 and 3-K in Franklin, Garfield, Asot[illegible] Columbia and Walla Walla Counties, No[illegible] ADAMS VICINITY, ET AL, a State Proje[illegible] involving about 84,700 tons of Crush[illegible] Materials.

W. A. BUGGE, Director of Highways,
E. A. COWELL, Chairman.
6036—2-1, 8

ELEMENTARY SCHOOL
BIDS CLOSE 2 P.M., FEBRUARY 26
Klamath Falls, Oregon
NOTICE TO CONTRACTORS

Sealed bids will be received on or before two o'clock p.m. Thursday, February 26, 1958, at the office of the Klamath County School District, Veterans' Memorial Bldg., Klamath Falls, Oregon.

This bid will be for the erection of the Elementary School Building, Crest near Laverne, Klamath Falls, Oregon. A general bid will include all items of work. Bids will be publicly opened and read. As a condition precedent to receipt of his proposal, the bidder must have qualified ten (10) days prior to the opening of bids, as prescribed by page 225, Laws of Oregon, 1951.

Plans and Specifications may be obtained at the offices of Morrison and Howard, architects, 203-05 Williams Building, Klamath Falls, Oregon. A deposit of fifty and no/100 dollars ($50.00) will be required for plans and specifications. The deposit will be refunded to the bidder upon return of the plans and specifications, in good condition.

Plans and specifications on file at the Builders Exchange Coops, in Portland and Eugene, Oregon; San Francisco and Sacramento, California.

The successful bidder will be required to furnish a performance bond in the full amount of the contract price, a payment bond of not less than fifty per cent (50%) of the contract price and he shall be required to carry Public Liability Insurance as specified.

A bidders bond or certified check in the amount equal to five per cent (5%) of the lump sum bid, must accompany the bid as a guarantee for the execution of the contract and bonds, in case the contract is awarded to the bidder.

The Directors of the Klamath County School District reserve the right to accept or reject any and all bids and to waive any informalities.

Signed,
J. F. HEYDEN, Clerk
6027—1-21, 28; 2-4

STEEL TOWERS
BIDS CLOSE MARCH 11
Denver, Colorado
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-5018) will be received at Denver, Colorado, until March 11, 1958, for furnishing 1,449 steel towers, with tower leg extensions and stub angles, for single-circuit transmission line. Tower body height ranges from 50 feet to 230 feet for Fort Peck-Dawson County-Bismarck 230-kv transmission line, Fort Peck and Missouri River Basin Projects, Montana and North Dakota. Delivery is desired within 730 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6034—2-8

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MARCH 4
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, March 4, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified

check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 7 inclusive.

The improvements for which bids will be received follow:

1. Constructing a Steel Truss Bridge and Reinforced Concrete Flat Slab Approach Spans on 0.184 mile of Secondary State Highway No. 1-A in Skagit County, SKAGIT RIVER BRIDGE, FAS No. S-0202 (7), involving about 4,255 cubic yards of Concrete, 170,000 pounds of Steel Reinforcing Bars, a lump sum bid for Concrete Superstructure (about 617 cubic yards of Concrete and 147,500 pounds of Steel Reinforcing Bars), 504 linear feet of Standard Bridge Railing, 2 lump sum bids for Structural Steel (about 1,361,000 pounds), a lump sum bid for Cast Steel, 1,700 linear feet of Concrete Piling, 4,200 linear feet of Untreated Timber Piling, 12,300 tons of Riprap and other items.
2. Surfacing, Constructing a Cement Treated Base, Paving with Asphaltic Concrete, Constructing Bituminous Surface Treatment and Installing Illumination and Fencing on 4.833 miles of Primary State Highway No. 9 in Thurston County, MUD BAY TO TUMWATER, FAP Nos. U-007-5(12) and F-007-5(8), involving about 35 acres of Clearing, 450 cubic yards of Common Excavation, 2,330 tons of Selected Roadway Borrow, 64,475 tons of Gravel Surfacing and Crushed Surfacing, 410 tons of Asphalt Cement, 1,920 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 28,955 tons of Asphaltic Concrete, 11,800 barrels of Portland Cement, 146,565 square yards of Cement Treated Base, 3,804 linear feet of Cement Concrete Gutter, 1,872 linear feet of Cement Concrete Curb, 8,270 linear feet of Asphaltic Concrete Curb, 1,745 linear feet of Precast Traffic Curb, 387 cubic yards of Concrete, 85,700 pounds of Steel Reinforcing Bars, 1,329 linear feet of Concrete Pipe, 7,752 linear feet of Beam Guard Rail, 2,371 linear feet of Double Beam Guard Rail, 357 Guide Posts, 40,940 linear feet of Wire Fence, 9,360 linear feet of Chain Link Fence, 340 cubic yards of Precast Concrete Slope Protection, 16,020 cubic yards of Top Soil, 5 lump sum bids for Illumination Systems, a lump sum bid for Overhead Destination Sign Supports and other items.
3. Clearing, Draining, Grading and Constructing Two Reinforced Concrete Slab Bridges and One Reinforced Concrete Girder Bridge on 4.226 miles of Primary State Highway No. 11 in Adams County, RITZVILLE TO TOKIO-UNIT 1, FAP No. I-002-5(5), involving about 500,140 cubic yards of Common Excavation, 44,570 cubic yards of Solid Rock Excavation, 56,940 units of Overhaul, 2,575 cubic yards of Crushed Surfacing and Mineral Aggregate, 41 tons of Asphalt Cement, 5,660 linear feet of Concrete Pipe, 616 linear feet of Metal Pipe, 18,685 linear feet of Chain Link Fence, 27,125 linear feet of Wire Fence, 51,490 cubic yards of Top Soil, a lump sum bid for Two Superstructures (about 1,665 cubic yards of Concrete and 444,000 pounds of Steel Reinforcing Bars), 1,342 linear feet of Standard Bridge Railing, 959 cubic yards of Concrete, 147,000 pounds of Steel Reinforcing Bars and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Installing Illumination on Primary State Highway No. 18 in Grant County, MOSES LAKE BRIDGE TO SSH NO. 11-G, FAP No. I-002-4(12), involving 3 lump sum bids for Illumination Systems. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
5. Draining, Grading and Surfacing on 9.145 miles of Franklin County Road, SAGE-HILL ROAD, FAS No. S-1017(3), involving about 101,160 cubic yards of Common Excavation, 720 cubic yards of Solid Rock Excavation, 69,940 tons of Crushed Surfacing and Crushed Cover Stone, 640 linear feet of Metal Pipe, 1,461 linear feet of Concrete Pipe and other items.
6. Surfacing on 5.892 miles of a Grant County Road, WHITE TRAIL ROAD, FAS No. S-1004(4) Unit 2, involving about 24 M gallons of Water and 26,800 tons of Crushed Surfacing and Ballast.
7. Surfacing and Constructing Bituminous Surface Treatment on 3.131 miles of a Columbia County Road, THORN HOLLOW-WHETSTONE ROAD, FAS No. S-1134(2), involving about 10,970 cubic yards of Crushed Surfacing and Crushed Cover Stone, 100 tons of Asphalt Cement and other items.
8. Paving with Asphaltic Concrete on 7.37 miles of Primary State Highway No. 9 in Clallam County, BOGACHIEL RIVER TO LAPUSH ROAD, a State Project, involving about 4,570 tons of Crushed Surfacing, 16,190 tons of Asphaltic Concrete, 33 tons of Asphalt Cement, 270 linear feet of Asphaltic Concrete Curb and other items.

Mr. Architect . . .

you can counteract the high costs of construction

. . . by placing your official advertisements for bids in the construction trade journals of the Northwest—PACIFIC BUILDER & ENGINEER (1st Saturday of each month), PACIFIC ARCHITECT AND BUILDER (3rd Saturday of each month), and CONSTRUCTION NEWS BULLETIN (2d, 4th and 5th Saturdays).

They reach more contractors, subcontractors and suppliers than any twenty newspaper-type publications.

That's why more consulting engineers — and more school districts, cities, counties, state departments, PUDs and federal bureaus — place their advertisements for bids in our columns than in any other publication in the entire Northwest.

IF YOU WISH THE *LOWEST COMPETITIVE BIDS CONSISTENT WITH RESPONSIBLE WORKMANSHIP* we can get them for you, whether your job is located in the Willamette Valley or in the Blue Mountains . . . in Western Washington or the Inland Empire . . . in the Coeur d'Alene or the Snake River Valley . . . on the Flathead or the Feather . . . in the Puget Sound country or in San Francisco.

PACIFIC BUILDER & ENGINEER, Inc.

2418-Third Ave., Seattle 1, Wash.

9. Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment on 0.659 mile of Primary State Highway No. 7 in Lincoln County, TOWN OF ODESSA, a State Project, involving about 7,390 cubic yards of Common Excavation, 70 cubic yards of Top Soil, 18,990 tons of Crushed Surfacing, Ballast and Crushed Cover Stone, 74 tons of Asphalt Cement, 2,460 linear feet of Cement Concrete Curb, 10 cubic yards of Concrete, 411 linear feet of Concrete Pipe, 655 square yards of Cement Concrete Sidewalk and Driveway and other items.
10. Stockpiling Crushed Surfacing, Fine Screenings and Mineral Aggregate on Secondary State Highway No. 5-I in Thurston County, YELM VICINITY, a State Project, involving about 21,000 tons of Crushed Materials and a lump sum bid for Clearing and Grubbing.
11. Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Cement Concrete and Installing Illumination on 0.090 mile of Primary State Highway No. 1 in Clark County, INTERSTATE BRIDGE APPROACHES IN VANCOUVER, a State Project, involving about 3,810 cubic yards of Unclassified Excavation, 2,400 tons of Crushed Surfacing and Ballast, 300 tons of Asphaltic Concrete, 2,980 square yards of Cement Concrete Pavement, 17,680 pounds of Steel Reinforcing Bars, 93 cubic yards of Concrete, 2,515 linear feet of Cement Concrete Curb and Gutter, 204 linear feet of Concrete Pipe, 221 linear feet of Iron Pipe, 270 square yards of Cement Concrete Sidewalk, a lump sum bid for Illumination System and other items.
12. Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Constructing a Reinforced Concrete Slab Bridge on 0.542 mile of Secondary State Highway No. 21-B in Kitsap County, PORT WASHINGTON NARROWS BRIDGE-NORTH APPROACH, a State Project, involving about 21,100 cubic yards of Unclassified Excavation, 89,110 cubic yards of Common Borrow, 10,800 cubic yards of Selected Roadway Borrow, Crushed Surfacing and Prime Coat Aggregate, 35 tons of Asphalt Cement, 4,600 tons of Asphaltic Concrete, 6,790 linear feet of Cement Concrete Gutter, 3,280 linear feet of Cement Concrete Curb and Gutter, 1,930 linear feet of Precast Traffic Curb, 2,744 linear feet of Metal Pipe, 2,836 linear feet of Concrete Pipe, 2,730 linear feet of Beam Guard Rail, 380 square yards of Cement Concrete Sidewalk, 5,180 linear feet of Chain Link Fence, 1,101 cubic yards of Concrete, 131,000 pounds of Steel Reinforcing Bars, 213 linear feet of Standard Bridge Railing and other items.
13. Draining, Grading, Surfacing and Paving with Asphaltic Concrete and Cement Concrete on 0.897 mile of Secondary State Highway No. 21-B in Kitsap County, PORT WASHINGTON NARROWS BRIDGE-SOUTH APPROACH, a State Project, involving about 9,120 cubic yards of Unclassified Excavation, 20,000 cubic yards of Common Borrow, 3,880 cubic yards of Selected Roadway Borrow, Crushed Surfacing and Prime Coat Aggregate, 8 tons of Asphalt Cement, 2,690 tons of Asphaltic Concrete, 15,680 square yards of Cement Concrete Pavement, 11,160 linear feet of Cement Concrete Curb, 950 linear feet of Cement Concrete Curb and Gutter, 500 linear feet of Precast Traffic Curb, 510 cubic yards of Concrete, 45,000 pounds of Steel Reinforcing Bars, 9,400 linear feet of Concrete Pipe, 900 linear feet of Beam Guard Rail, 1,180 linear feet of Chain Link Fence, 7,220 square yards of Cement Concrete Sidewalk and Driveway and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

6044—2-15, 22

SEWAGE COLLECTION SYSTEM, PUMPING PLANT

LOW'S AND DALY'S ADDITIONS

BIDS CLOSE 7:30 P.M., M.S.T., MARCH 3

Missoula, Montana

NOTICE TO CONTRACTORS

Sealed bids for the construction of a sewage collection system and a sewage pumping plant will be received by the City of Missoula, Missoula County, Montana until 7:30 P.M., MST, on the 3rd day of March, 1958, at which time and place bids will be publicly opened and read aloud.

Proposals shall be addressed to the City Clerk, City Hall, City of Missoula, Montana, and mailed or delivered to that office. The bid opening will be held at the City Fire Hall, West Pine and Stevens Streets, Missoula, Montana.

The proposed work includes the following approximate quantities: 34,795 feet trench excavation and backfill, 5,000 feet 4-inch sewer, 31,757 feet 8-inch sewer, 941 feet 10-inch sewer, 1,436 feet 12-inch sewer, 2,212 feet 15-inch sewer, 91 manholes, 1 pumping plant.

Plans and specifications may be examined at the City Hall of the City of Missoula, Montana; offices of Clark & Groff Engineers, 3240 Triangle Drive, Salem, Oregon and 408 Woody Street, Missoula, Montana; office of Montana Contractors Association, Placer Hotel, Helena, Montana; offices of the Associated General Contractors, 102 South Stevens, Spokane, Washington, 220 West Harrison Street, Seattle 99, Washington, 1210 Grove Street, Boise, Idaho, and 129 Southwest Third Avenue, Portland, Oregon. Licensed Contractors may secure copies of these documents from the Engineer's office either in Missoula, Montana or Salem, Oregon, upon deposit of Thirty-Five Dollars ($35.00). The deposits will be refunded to all bidders and Twenty-Five Dollars ($25.00) of the deposit will be refunded to non-bidders upon return of the documents in good condition within fifteen (15) days after the bid opening.

Each and every bid shall be made upon the regular blank forms found with the specifications and shall be accompanied by a check payable to the City of Missoula, Montana, and certified by a responsible bank for an amount which shall not be less than ten per cent (10%) of the total bid, to be forfeited to the City in the event of failure to contract within ten (10) days after acceptance of bid. A bid bond is not acceptable. A one hundred per cent (100%) corporate surety bond will be required to guarantee faithful performance under any contract awarded.

The City reserves the right to postpone making the award for thirty (30) days or to reject any and all bids, to delete certain items from the bid, and to accept the bid deemed by them to be for the best interests of the City of Missoula, Montana.

By order of the City Commission.

Alan W. Cuthbertson
City Manager

6043—2-15, 22

WASCO DAM

BIDS CLOSE 2 P.M., MARCH 18

Culver, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5022) will be received at Culver, Oregon until 2 p.m. Pacific Time March 18, 1958, for furnishing labor and materials for Wasco Dam, Wapinitia Project, Oregon. Location 35 miles west of Maupin, Oregon, in Wasco County. Principal items are 91,000 cu. yds. excavation; 45,000 cu. yds. dam embankment; 515 cu. yds. concrete; and other work. Completion time 500 days. For particulars, address Bureau of Reclamation, Jerichol Lane, Culver, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commisioner.

6042—2-15

HIGH SCHOOL, ADDITION TO GRADE SCHOOL

BIDS CLOSE 8 P.M., FEBRUARY 25

Deer Park, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of the Joint Consolidated School District No. 414, at the offices of the School District, in the present High School, Deer Park, Washington, on or before 8:00 P.M., P.S.T., Tuesday, Feb. 25, 1958, for the construction of Deer Park High School and addition to Clayton Elementary School of frame and masonry construction. The bids will then and there be publicly opened and read aloud.

Bids received after the time fixed for opening cannot be considered.

Separate bids will be received for the following contracts:

a. General
b. Mechanical work
c. Electrical work
d. Also a bid on Clayton Multi-Purpose Addition including all three contracts.

Drawings and specifications including contract documents may be examined at the office of the Architect, Victor Louis Wilson, 1526 West Riverside Avenue, Spokane, Washington, and may be obtained there upon the deposit of $40.00 per set for General, and $25.00 each for Mechanical and Electrical.

The sets of plans and specifications will be on file at the following places for the convenience of sub-contractors, etc.: The City Construction Council, 34 Vista Way, Kennewick, Wash.; Construction Council, 321 West 3rd, Spokane, Wash.; AGC Builders' Chapter, N. 1207 Washington, Spokane, Wash.; Builders' Exchange, 317 Builders' Exchange Bldg., Portland, Oregon; AGC Builders' Chapter, 215 West Harrison St., Seattle, Wash.; Plan Bureau, 2413 Western Ave., Seattle, Wash.; Basin Construction Council, 515 W. Broadway, Moses Lake, Wash.; Yakima Valley Master Builders, 702 W. Walnut St., Yakima, Wash.; AGC Builders' Chapter, 452 St. Helens, Tacoma, Wash.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, unmutilated and without marks and annotations, within 10 days after the time set for opening of bids, but to non-bidders only if returned no later than 10 days before the bid opening.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" and on the bid form provided by the Architect and each bid must be accompanied by a certified check, cashier's check or bid bond with State-licensed surety or sureties in an amount of not less than five per cent (5%) of the bid for which security is given, made payable to the Joint Consolidated School District No. 414, Deer Park, Washington.

The right is reserved to accept or reject any or all bids and waive all claims, or any informalities or irregularities in the bids or in the bidding.

The School District reserves the right to award a contract for this project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interests of the School District. No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of Joint Consolidated School District No. 414, Deer Park, Washington.
Mrs. Charlotta Layton, Clerk.

6037—2-8, 15, 22

POULTRY PLANT

BIDS CLOSE 2 P.M., FEBRUARY 19

Pullman, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Regents of the State College of Washington on February 19, 1958, in room 303 of the Administration Building, State College of Washington, at 2:00 P.M., for the construction of a POULTRY PLANT at Pullman, Washington. Bids received after the time for opening will not be considered.

Drawings, specification and forms of contract documents may be examined at the offices of Philip E. Keene, Architect, State College of Washington, Pullman, Washington, or Funk, Murray & Johnson, Architects, W. 524 4th Avenue, Spokane, Washington.

Sets of drawings, specifications and forms may be obtained from Funk, Murray & Johnson, W. 524 4th Ave., Spokane, Washington, on deposit of $30.00 for the General Plans, including the Mechanical and Electrical Plans.

No bidder may withdraw his bid after the hour set for the opening thereof unless said award is delayed for a period exceeding 30 days.

Secretary,
Board of Regents,
State College of Washington.

6032—2-1, 8, 15

pacific architect and builder

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Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 3 MARCH 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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Attorney's Office Building, Long Beach, Calif. (p. 15). Killingsworth, Brady & Smith, Edward A. Killingsworth-Waugh Smith, Architects; Marvin Rand photo.

BULLETINS

Contract for design of a $45 million federal office building in San Francisco, one of the largest ever planned outside the Washington, D.C., area, has gone to four architectural firms in that city: Blanchard & Maher; Albert F. Roller; Stone, Mulloy, Marracini & Patterson; and John Carl Warnecke.

Civic Center site in Los Angeles has been selected by the federal government and approved by the City Council for construction of the long-planned $33 million customs house and office building.

Master plan for the future development of the University of Washington campus will be prepared by Seattle architect Paul Thiry.

California Council, AIA, has elected these officers: L. F. Richards, Santa Clara, president; Lee B. Kline, Pasadena, vice president; Edward H. Fickett, Los Angeles, secretary; Allen Y. Lew, Fresno, treasurer; Corwin Booth, San Francisco, member-at-large.

Architectural mosaic muralist Joseph L. Young of Los Angeles has been invited to be artist-in-residence at the Positano (Italy) Art Workshop in June and at the Institute of Industrial Design in Haifa, Israel, later this year. An exhibition of over 30 original mosaics designed for the home and executed by Young's adult classses will be open to the public from March 30 through April 12 at his workshop, 8426 Melrose Ave.

THE CALENDAR

American Wood-Preservers' Association—annual convention, Los Angeles, April 14-16.

National Association of Architectural Metal Manufacturers—annual convention, Shamrock Hilton, Houston, April 27-May 2.

Western Air Conditioning Industries Association — conference and exhibit, Shrine Exposition Hall, Los Angeles, May 7-11.

Stanford Research Institute — annual western area conference, Vancouver, B. C., May 26-27.

THE BUILDING MONTH: TRENDS

Curtain wall panel construction is getting its share of attention this month. An all-day meeting was scheduled to be held in San Francisco at the Sheraton-Palace Hotel March 17, sponsored by the Producers' Council. On the agenda: design and fabrication, erection, types of sealants, joints and flashings, aluminum, masonry, steel, glass, types of panels, specification studies, auxiliary construction. And on the East Coast during a seminar conducted by Bettinger Corp., it was pointed out that over 80% of the cities have thus far adopted one of the major building codes which permit true curtain wall use, but in some of those cases there have been restrictive regulations. Keynoter J. C. Hazen Jr., executive editor of Architectural Forum, jolted his audience when he declared that curtain walls are not new, pretty or doing half the job they should do.

Manufacturers and consulting engineers in an effort aimed at greater cooperation and understanding met in Chicago last month to map plans for the formation of a joint committee to provide continuing liaison between the Producers' Council and the Consulting Engineers Council.

Our dwindling living space will force us to design expandable-shrinkable homes with built-in furnishings and radically miniaturized appliances, industrial designer Henry Dreyfuss told 1,000 businessmen attending February's annual conference of the Reinforced Plastics Division of the Society of the Plastics Industry. "Why not design a house that expands and contracts with our space needs?" the Chicago gathering was asked by Dreyfuss, whose designs include Bell System's color telephones, Hoover vacuum cleaners, Crane plumbing fixtures and Minneapolis-Honeywell thermostats. "Junior arrives and we shop for a cubicle that we buckle onto the side of our existing building. Years later when he has his own house, we cart his room off to the used-room lot."

Study of uses of lead in building construction is now underway by the architectural-engineering firm of Skidmore, Owings & Merrill, which has been retained by the Lead Industries Association. The study will be conducted in its New York, Chicago, Portland and San Francisco offices under the supervision of general partner John B. Rodgers.

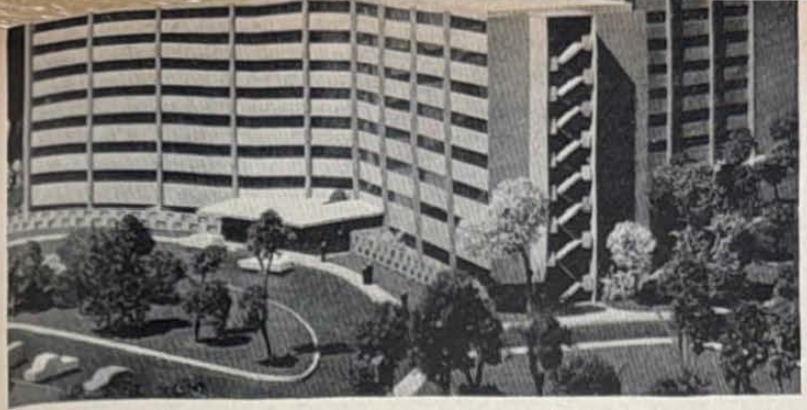
Cost barrier to commercial atomic-electric power appears to have been broken by Pacific Gas and Electric Co., San Francisco, which has reported to a congressional committee that its research has knocked several years off the accepted time when nuclear electricity would become economic for normal public use. The company is prepared to support its findings by building a 60,000-kw. atomic power plant south of Eureka, Calif., for service by the middle of 1962.

A cutback in plywood construction is being noted in the West as plant closures began spreading through the Pacific Northwest into California. Reasons for the closures: growing inventories and falling prices.

Pickup in home construction, accompanied by increased employment in the industry, can be expected this spring as a result of an easing in home loan money by the government. Typical of the optimism expressed is a statement by savings and loan leaders in San Francisco who predict an increase of at least 10% for 1958 over last year in the total of California mortgage finance activities "with plenty of money available for homes for which there will be plenty of buyers."

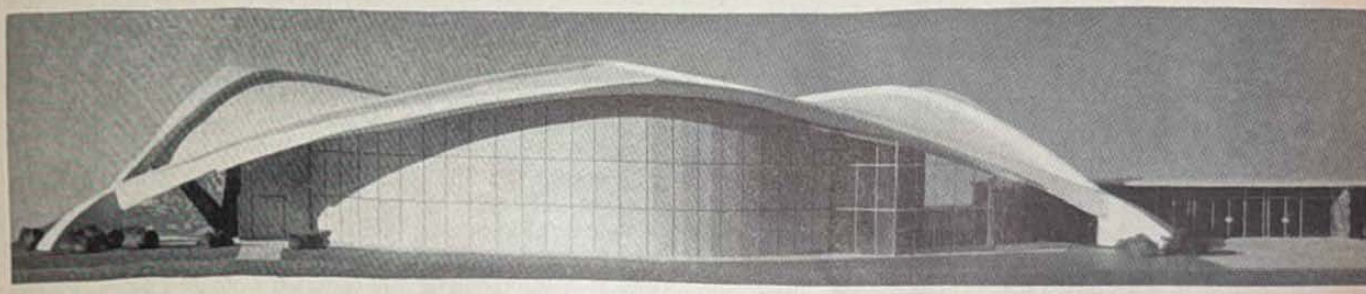
New store construction and modernization is expected to set a record this year, with an estimated $1.3 billion slated to be spent in the U. S.

Home Improvement Council, successor of last year's OHI, has two objectives, "protection of the public from the 'suede shoe' and 'gyppo' type of operation and stimulation of the home improvement and remodeling market, says Kenneth R. Topping Jr., San Francisco contractor and chairman of the council's Greater Bay area.

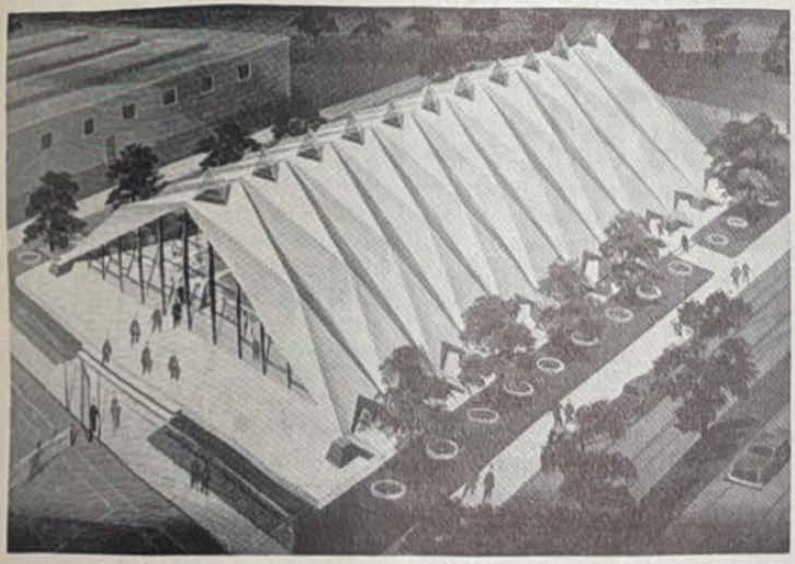


PROTOTYPE for possible future construction at other installations, eight-story officers building to be built at Mather Air Force Base, Sacramento, will accommodate 408 men, with two in each suite. Many of these units will have two bedrooms, living room, bath and kitchenette. Costing about $3 million, facility is designed to stay within limitation of $7,500 per man. Project originally was planned as series of two-story buildings, each housing 40 men, but cost of developing site utilities and roads made it too expensive to construct. Architects-engineers: Daniel, Mann, Johnson & Mendenhall.

AUDITORIUM for North Seattle High School will be combination of three hyperbolic paraboloids, with only three points of support. Roof slab will be structurally exposed, acoustically treated with asbestos-fiber plaster. Walls will be of brick and expanded shale block cavity construction. Architects: Naramore, Bain, Brady & Johanson; Worthington & Skilling, structural engineers.



INDOOR TRAINING POOL (seven-lane, 25-meter and accessory facilities) for U. S. Coast Guard at Alameda, Calif., will be 160x75-ft. building of precast reinforced concrete prismatic panels, 3 in. thick. Box girder construction is designed to float in high-density fluid earth base. (Site is over 14-ft. hydraulic fill.) Construction budget is $230,000. Architect: Office of Ernest J. Kump; engineer: Walter L. Dickey.



OFFICE BUILDING for Bethlehem Pacific Coast Steel Corp. in downtown San Francisco will be first new structure adjacent to 80-acre redevelopment area. Free-standing exterior steel columns and spandrels will be faced with marble; windows will be tinted gray for heat control. Ends of tower will be cantilevered and walls of first two stories set back to form arcade. Architects: Welton Becket & Associates; structural engineers: Hayes & Little and John A. Blume & Associates.

Oregon dean to resign position in July

Sidney W. Little, dean of the School of Architecture and Allied Arts at the University of Oregon, will resign from this position and return to academic status as professor of architecture, effective July 1. The change will be followed by a six-month sabbatical leave for travel in Europe and the United States before returning to the Eugene campus in January 1959.

Dean Little has been in this administrative post for the past 12 years, coming to Oregon from the Alabama Polytechnic Institute, where for the previous eight years he was associate professor of architecture.

Prominent in AIA affairs, several years ago he was a member of a survey commission which contributed to the group of recommendations for strengthing the program of education for the professional practice of architecture. He currently is chairman of the committee of the Association of Collegiate Schools of Architecture for its major program in post-graduate refresher education for the architect in private practice.

While on leave Dean Little will investigate the graduate offerings in architecture at schools similar to Oregon. He plans to continue his work with the Oregon Capitol Planning Commission on his return.

Historians to hear Belluschi in Eugene next month

Among the featured speakers at the spring meeting of the Pacific Coast Section, Society of Architectural Historians, at the University of Oregon April 11-12 will be Dean Pietro Belluschi of the School of Architecture and Planning, MIT. He will give the main address at dinner on the first day.

Also participating in the program will be Mrs. Agnes A. Gilchrist, architectural historian for the National Park Service and the society's former national president. Prof. Marion D. Ross of Oregon's architectural faculty will be chairman of the meeting.

Two other events are scheduled during the historians' stay on the Eugene campus. The Western Division, Association of Collegiate Schools of Architecture, will meet and Lawrence Hall, new architecture and allied arts building, will be dedicated.

AGC prexy decries restrictive practices

• Union head responds with statement

Highlights of the national convention of the Associated General Contractors 38th annual convention in Dallas last month were a statement by outgoing president Lester C. Rogers who asked unions to give a full day's work for a full day's pay; and a 10-point policy outlined by Richard J. Gray, who heads the Building and Construction Trades Department, AFL-CIO.

"The construction employers of the nation demand action from the building and construction trades unions in supporting the principle of giving the public a full day's work in return for a full day's pay," began Rogers, whose group represents more than 7,000 general contractors.

Cites "unreasonable demands"

"The Associated General Contractors of America has sought at the national level and at the local bargaining table to eliminate non-productive wasteful practices and to hold wage increases to reasonable levels in line with productivity and the cost of living. This association supports the appeals of the President of the United States to control unreasonable demands and to reduce inflationary tendencies. 'Make work, featherbedding' and other restrictive practices continue to exist and are increasing despite lip service repeatedly given by labor leaders to the idea of a full day's work for a full day's pay.

"Main prop in economy"

"The public interest is always at stake in the performance of the construction industry and never more than now when construction is one of the main props in the national economy. The time for action is now. The time for talk and promises has passed. This vital matter can no longer remain buried in high level committee discussions, but must be acted on at the bargaining table.

"The association, whose members employ the bulk of construction labor, calls on the Building and Construction Trades Department of the AFL-CIO and each of its international union presidents to act now to eliminate restrictive 'make work' practices in construction, which are beneath the innate dignity of the American workman.

"The association appeals to industry as a whole and to the citizenry in every community to support this campaign to restore full productivity and to give the public full value for its investment in the construction of homes, schools, hospitals, highways, factories, defense facilities and all other structures needed for the progress and security of the nation."

Unions' policy statement

Here is the 10-point declaration of principles, later adopted at a Miami meeting by the 19 national and international unions, with a membership of three million, which make up the department:

1. The selection of craft foremen or craft general foremen, over workmen of their respective crafts, shall be entirely the responsibility of the employer.

2. The welding torch is a tool of the trade having jurisdiction over the work being welded. Craftsmen using the welding torch shall perform any of the work of their trade and shall work under the supervision of the craft foreman.

3. Workmen shall be at their regular place of work at the starting time and shall remain at their place of work until the regular quitting time.

4. There shall be no limit on production of workmen nor restriction of the full use of proper tools or equipment and there shall not be any task or piece work.

5. Payment of excessive daily travel allowances or subsistence shall be discouraged.

6. Jurisdictional disputes shall be settled in accordance with the procedure established by the Building Trades Department of the AFL-CIO or in special cases as agreed and established by two or more international unions, without interruption of work or delay to the job.

7. So-called area practices, not a part of collective bargaining agreements, should not be recognized nor should they be enforced.

"Slowdowns condemned"

8. Slowdowns, forcing of overtime, spread work tactics, standby crews and featherbedding practices have been and are condemned.

9. Stewards shall be qualified workmen performing work of their craft. There shall be no non-working stewards.

10. There shall be no strikes, work stoppages or lockouts during the processing of any grievances or disputes in accordance with the manner prescribed in the local or national agreement.

Women scrutinize kitchens

• New pattern seen at housing congress

Women's growing desire for individuality in their houses to fit their own personal living patterns should be a good omen to the design profession.

The 100 representatives at the Congress on Better Living, sponsored by McCall's magazine, spelled out the framework in which today's family lives and indicated that a new pattern—in some cases a reversal to yesterday's ideas—is evolving throughout the nation.

It was the kitchen that got the most attention—and criticism—and the trend is toward more universal use of this area of the home. Since only three out of the 100 consider the kitchen as "strictly for cooking" alone, one of the biggest problems is that the present kitchen is usually too small and lacks sufficient storage and counter space.

U-shaped kitchen plan preferred

The women prefer a U-shaped kitchen plan with a peninsula sink, or the sink being below a window, because it requires a minimum of movement in preparing meals. The U-plan also reduces traffic and interference by the rest of the family.

The new role of the kitchen calls for a broader architectural conception of women's needs in the home. Among the uses made of this area are laundry washing, drying and ironing; sewing and hobbies; a place for the children to study; storage space. What women want most today is a larger, better integrated kitchen planned to meet a variety of activities.

They also would like something done in every part of the kitchen to make it easier to clean. They want a radical new design in ranges, which are the hardest to maintain; and they recommend elimination of space beneath the refrigerator and between major appliances to ease cleaning problems. Cabinets below knee level annoy women because they are hard to reach.

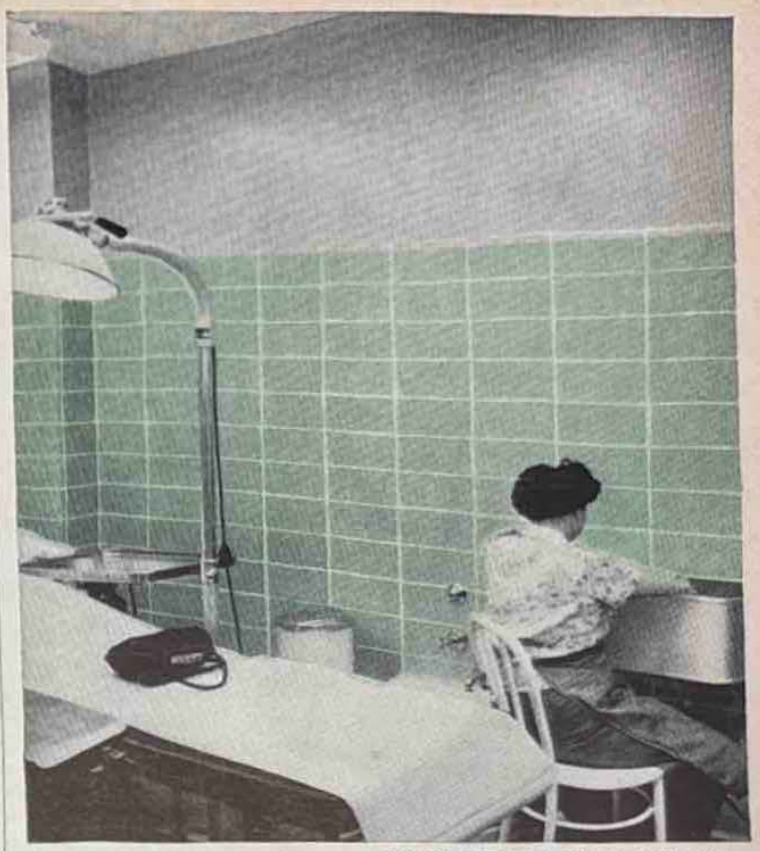
Labor-saving devices may boomerang

Some of the delegates thought that the labor-saving devices require too much labor to keep clean and made these suggestions:

- Disposable oven liners and a removable broiler lining.
- Wall ovens that are more efficiently ventilated.
- Transfer of ice cube compartment from the refrigerator to the sink where glasses and water supply are handy and where they are most used.
- Dishwashers redesigned to accomodate more dishes; many current models also are hard on stemware and silver and barely take care of an average meal. Other ideas: one dishwasher for glasses, one for dishes with its own garbage disposer; a three-speed, three-level unit with adjustable racks for cups and glasses.

Lack of product information

The report shows that some recommendations have in fact been in effect for a time, but that some women lack information about the newest appliances and often do not know that such improvements exist. Many women did not know, for example, of ranges with removable oven linings which make oven cleaning a vastly easier job. It seems that manufacturers must make homemakers—along with architects and home builders—aware of their products as well as meet the requirements of the market.



Ford Motor Company, Milpitas, California
Albert Kahn, Associated Architects & Engineers
Glazed Structural Tile by Kraftile

first aid for ford

What Ford does, Ford does right! Their cheery First Aid Room shown here is only one of many facilities thoughtfully provided in their giant new Milpitas plant. There are first aid rooms, kitchens, cafeterias, shower and locker rooms—all with generous expanses of gleaming, smooth Kraftile glazed structural tile.

In these rooms which do not yield direct profit or production, building and maintenance costs came under extra close scrutiny. Glazed Structural Tile Units are speedily installed as combined wall and finish by only one trade (masonry). A damp cloth cleans it. Glowing, harmonious colors cannot fade. Smooth, marble-hard finish fends off chemicals, acids, grease and steam. Offers no shelter to dirt, vermin, bacteria or rodents. 12 colors plus clear glaze in standardized sizes and shapes. Write for specifications, Graphic Standards and color samples.

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Northwest boosts wood; Bay, masonry

• School forum, industry dinner promote products

A school design forum arranged by the Tacoma Lumbermen's Club was attended by 240 architects, educational and civic leaders last month, while another 200-plus architects, engineers and city officials gathered in San Francisco for the masonry industry's first promotional dinner in January.

In Tacoma

PRINCIPALS at Tacoma Lumbermen's Club forum on schools are (l. to r.) James Hopkins, assistant superintendent of Tacoma schools; architect Robert Billsbrough Price; Lloyd J. Andrews, Washington state superintendent of public instruction; Corydon Wagner Jr., club president; and Al Ogren, master of ceremonies.

While the forum was titled "Schools Within Reason—the Logic of Wood in Modern School Design," it pointed up generally the problems and potentials of the school building program in Washington State. Said Robert Billsbrough Price of Tacoma: "Today I'm speaking as an architect and my only interest is in obtaining the most for the least for my client," adding that a wood school is also a concrete, masonry and steel school.

Turning to the lumbermen, Price declared, "Gentlemen, you have only yourselves to blame for your untapped markets. It has taken outsiders to make you aware of the potentials of your product." And he went on to commend the Douglas Fir Plywood Association on its research program, "both for the new application as well as its continuing engineering studies which are available to all architects and engineers for the asking."

In San Francisco

At the dinner sponsored by the Masonry Joint Industry Board of Northern Californa Coast Counties, Los Angeles architect Ulysses Floyd Rible bluntly praised and criticized the industry and suggested a program of activity to be followed in creating wider markets for brick.

"I like brick," Rible asserted, "because it has color and texture, is flexible in its adaptation to shapes and surfaces, is low in cost, particularly low in maintenance requirements and its general appearance is desirable.

"I don't like brick because there is not enough variety of colors available in common brick or in grout and because labor in the masonry field has not been too cooperative in efforts to keep costs down."

Rible suggested that the masonry industry "make an effort to develop a far greater range of colors in common brick and a wider range of textures, without increasing costs to the consumers. Common brick still is too soft and too easily damaged both in transit and installation. Perhaps this problem could be overcome by an industrywide effort to produce thin brick preapplied to panels and made competitive in cost to plastics."

John A. Blume, structural engineer and head of John A. Blume & Associates of San Francisco, also spoke.

Two West Coast church designs cited

Lone first award in the 1958 competition sponsored by the Church Architectural Guild of America went to the Cate School Chapel in Caprinteria, Calif., designed by Los Angeles architect George Vernon Russell. Only other West Coast winner was the Hope Lutheran Church in Tacoma, which won an honorable mention for architect Robert Billsbrough Price of that city.

The competition, which was dominated by western winners last year, provides for first, second and third prizes plus honorable mentions in each of six categories, such as churches over 300-seating capacity. In one instance no award was given and in several others, only honorable mentions. In all, 14 projects were premiated.

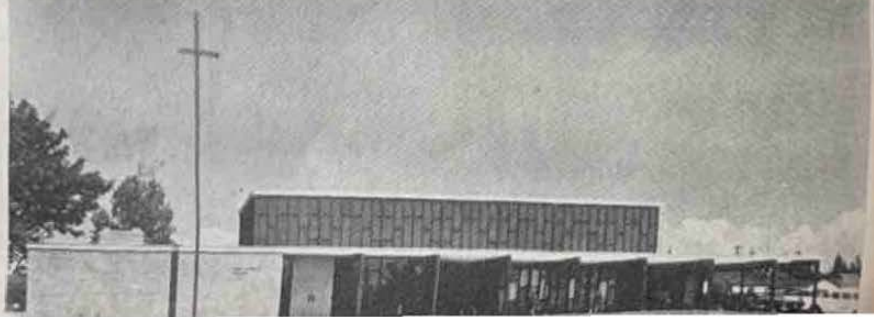
The awards were made as part of a national conference on church architecture in Detroit February 18-20, co-sponsored by the National Council of the Churches of Christ. Among the program participants was Seattle architect Robert L. Durham, who conducted a workshop on "European Churches."

The conference will be held for the first time on the West Coast when it meets in Los Angeles next year; Seattle will host the sessions in 1962.

FIRST AWARD, Class 3, churches of any size unconnected with religious education buildings: Cate School Chapel, Carpinteria, Calif.; George Vernon Russell, architect.

HONORABLE MENTION, Class 2A, churches under 300-seating capacity: Hope Lutheran Church, Tacoma; Robert Billsbrough Price, architect.

Dearborn-Massar



Building volume indicates upturn

PERMITS

Building permit volume continued to rise slightly in February. The total for the five western states was $167,760,393, up $2¾ million over the same period a year ago. Washington chalked up a $5 million increase; Oregon, $1¾ million; and Idaho, $½ million. California dropped $3½ million and Montana was down $1 million.

An exceptionally good February was indicated in San Diego, up $17¾ million over last year; Los Angeles, which had the biggest February on record, up $4 million; Seattle, $2½ million; King County, $1½ million; and Portland, $1¾ million. At the same time a number of individual building permit agencies recording substantial decreases. Los Angeles County dropped $11¾ million from February 1957; San Mateo County, $3 million; Orange County, $2 million; and Spokane, $1½ million.

The usual February slump was marked only in California, where the dollar volume dropped $23½ million below January. Washington picked up a good $6¾ million over the January figure; Oregon was up $1¼ million; Idaho and Montana had slight increases.

While it is still too early to tell whether 1958 will be a considerably better year, the building permit volume for the first two months certainly indicates a somewhat brighter picture. The five-state total is $351,446,113, up $6¾ million over the first two months of 1957.

Following is a breakdown of building permits issued for new buildings and additions by several of the major agencies during February. (Number of permits is followed by total dollar volume.)

ANALYSIS OF TYPICAL AREAS—FEBRUARY

	Dwelling		Commercial & Industrial		Public	
Portland	38	$ 643,900	14	$1,236,000	3	$ 979,970
King Co.	356	3,788,810	35	942,860	6	1,627,540
Seattle	415	2,652,342	183	4,263,148	2	2,447,597
Tacoma	95	397,880	32	299,325	1	249,000
Los Angeles Co.	1107	8,443,694	276	2,842,791	25	1,546,471
Orange Co.	105	1,190,230	31	142,377	3	1,002,000
Sacramento Co.	374	3,406,095	50	1,784,952	5	209,650

Building Permit Totals for 116 Western Agencies for February

CALIFORNIA	Feb. 1958	Jan. 1958	Feb. 1957
Alameda County	$ 556,650	$ 906,600	$ 3,231,850
Anaheim	2,788,886	3,216,840	2,028,157
Bakersfield	842,713	742,268	937,882
Burbank	670,479	726,086	818,430
Contra Costa County	4,674,958	2,064,757	1,604,598
Fresno	1,446,680	1,637,566	1,564,867
Fullerton	1,045,945	502,111	1,846,344
Glendale	1,318,305	1,564,058	1,396,585
Inglewood	854,745	1,050,994	293,261
Long Beach	5,878,285	3,730,690	4,618,580
Los Angeles	35,266,382	46,264,686	31,254,274
Los Angeles County	13,344,794	18,928,557	25,175,845
Oakland	1,509,451	2,469,118	2,384,319
Ontario	465,823	1,341,958	1,663,599
Orange County	2,484,841	2,816,808	4,570,606
Palo Alto	543,919	892,236	1,105,537
Pasadena	1,024,951	924,916	1,773,462
Pomona	386,604	769,236	2,176,781
Richmond	305,572	587,593	401,416
Riverside	1,267,757	888,957	1,573,904
Sacramento	1,383,584	2,635,303	1,354,615
Sacramento County	5,449,402	3,116,382	4,423,914
San Bernardino	1,337,814	2,917,098	1,633,561
San Bernardino County	3,258,089	4,724,025	4,365,922
San Diego	24,288,172	10,544,881	6,419,132
San Diego County	4,262,000	4,737,200	4,176,800
San Francisco	3,318,386	6,081,392	3,469,067
San Jose	3,247,545	4,995,741	3,745,775
San Mateo	474,547	606,220	886,658
San Mateo County	642,776	4,006,704	3,700,766
Santa Ana	1,502,456	1,752,189	1,345,142
Santa Monica	908,795	3,065,638	2,227,326
Stockton	444,848	428,385	665,796
Sunnyvale	1,540,510	4,546,317	2,088,900
Torrance	1,578,736	7,023,419	1,724,744
West Covina	957,390	1,751,745	2,292,273
TOTAL	$131,362,790	$154,960,674	$134,930,688

OREGON	Feb. 1958	Jan. 1958	Feb. 1957
Albany	$ 79,500	$ 94,900	$ 92,150
Astoria	10,950	3,450	77,727
Baker	69,540	8,513	33,300
Bend	74,650	59,940	93,350
Coos Bay	46,775	63,917	25,748
Corvallis	177,800	263,750	130,100
Eugene	913,352	78,968	215,710
Grants Pass	59,095	49,895	78,300
Gresham	50,500	67,505	41,700
Hillsboro	26,601	21,200	241,208
Klamath Falls	27,550	29,022	76,080
LaGrande	21,382	350	4,375
Lane County	527,517	372,778	554,566
Medford	262,585	314,575	180,365
Multnomah County	2,012,425	1,162,425	2,500,051
North Bend	28,370	31,141	229,237
Oregon City	21,790	28,175	36,155
Pendleton	110,900	45,200	64,980
Portland	3,610,650	4,219,070	1,732,135
Roseburg	14,520	52,735	45,783
Salem	192,080	111,920	195,755
Springfield	53,155	15,600	47,000
The Dalles	26,300	18,775	12,000
TOTAL	$ 8,417,987	$ 7,123,704	$ 6,707,775

WASHINGTON	Feb. 1958	Jan. 1958	Feb. 1957
Aberdeen	$ 53,180	$ 31,087	$ 51,469
Anacortes	137,210	129,100	38,395
Auburn	380,400	114,900	96,200
Bellingham	90,734	144,600	60,305
Bremerton	84,205	54,155	81,015
Centralia	33,891	29,345	51,396
Chehalis	2,530	9,031	9,335
Clarkston	184,607	6,432	79,705
Ellensburg	30,385	8,830	30,070
Ephrata	152,388	13,460	33,539
Everett	138,593	129,165	1,505,927
Kelso	53,700	7,300	17,500
Kennewick	32,300	36,500	57,550
King County	6,404,370	6,224,465	4,786,188
Kirkland	83,250	119,070	76,050
Longview	96,706	314,953	251,691
Moses Lake	1,593,400	386,476	103,164
Olympia	186,234	380,875	117,807
Pasco	115,550	149,650	112,275
Pierce County	1,422,509	1,117,268	889,015
Port Angeles	5,600	2,650	2,700
Puyallup	179,600	113,050	82,100
Ritzville	25,000	Nil	1,500
Seattle	9,463,046	6,124,296	6,842,227
Shelton	41,050	14,783	13,200
Spokane	1,063,602	545,726	2,626,256
Spokane County	1,159,625	571,216	805,247
Sumner	19,400	29,020	14,250
Tacoma	981,925	1,803,265	861,455
Vancouver	295,791	434,660	650,195
Walla Walla	270,650	186,315	122,852
Wenatchee	644,800	100,450	162,825
Yakima	453,935	260,862	88,177
TOTAL	$ 25,880,166	$ 19,591,955	$ 20,721,580

MONTANA	Feb. 1958	Jan. 1958	Feb. 1957
Billings	$ Nil	$ 180,750	$ 146,000
Bozeman	Nil	Nil	500
Butte	135,851	67,547	47,750
Glasgow	23,000	5,400	5,530
Glendive	5,430	6,000	Nil
Great Falls	644,105	497,521	1,710,389
Helena	185,850	169,378	133,225
Kalispell	15,900	13,600	16,800
Lewistown	4,000	Nil	12,000
Livingston	2,010	31,900	3,330
Miles City	13,512	20,700	4,300
Missoula	61,225	8,300	40,200
TOTAL	$ 1,090,883	$ 1,001,096	$ 2,120,024

IDAHO	Feb. 1958	Jan. 1958	Feb. 1957
Boise	$ 148,375	$ 580,777	$ 184,635
Caldwell	47,725	9,485	29,700
Coeur d'Alene	45,750	43,450	6,350
Idaho Falls	141,300	52,625	4,300
Jerome	43,500	5,500	38,500
Lewiston	108,717	68,239	47,875
Nampa	67,950	31,250	17,325
Payette	9,000	16,900	3,010
Pocatello	143,150	108,965	46,151
Sandpoint	19,000	7,000	2,000
St. Maries	6,500	Nil	3,000
Twin Falls	227,600	84,100	56,950
TOTAL	$ 1,008,567	$ 1,008,291	$ 439,796

GRAND TOTAL	$167,760,393	$183,685,720	$164,919,863

Industry looks at its broad problems

RESEARCH

• Reduction of building costs is main objective

In an initial effort to define the broad problems facing the building industry today, some 50 leaders gathered in Washington, D. C., February 11-12 for a joint meeting of the Building Research Advisory Board and the Building Research Institute. They heard 11 speakers, each representing the viewpoint of a special industry segment or one of the related professions, and then as a group discussed the opinions expressed.

"Every speaker," said W. H. Scheick, executive director of BRI, "whether architect, engineer, builder, manufacturer or economist, made a major plea for the development of accurate, dependable, scientific building design data through research and for better communication of technical progress between all branches of the industry. With reduction of building costs as the main objective, these industry leaders emphasized the need for strongly stepped-up research programs in building technology itself and in related areas of the natural, human and social sciences."

The assembled BRAB-BRI group approved release of the list of problems developed by the speakers as a challenge to everyone concerned with building design and construction.

Architect sets tone

Indicative of the tone of the meeting was a comment by Chicago architect Norman Schlossman, who said, "We must consider the economic life of our buildings in these times of changing finances and shifting population, on the threshold of an atomic age. Scores of structurally sound buildings are demolished annually due to the workings of economics and obsolescence. What can we do to lengthen their useful life, or at least reduce the present imbalance between the life of the structure and the life of the equipment and the guts?"

An owner speaks

Speaking as a building owner, E. D. Hollinshead of John W. Galbreath Co., Pittsburgh, asked for contracts between building owners and architects or engineers so written that the architects and engineers receive a bonus for every dollar saved under an agreed upon estimated cost. "After the percentage (of the cost) fee is arrived at," he pointed out, "the owner expects the architects and design engineers to spend their time and money to determine the best possible combination of manufactured items for the owner's building and the proper way to combine in the finished structure the building components produced by dozens of manufacturers. Such an arrangement does not work to the best advantage of the owner."

Problems for the creators of buildings

ARCHITECT

1. More study on why buildings leak, particularly in the fields of thin, lightweight walls, masonry walls and windows.
2. Better means of overcoming acoustical difficulties, partitions and suspended ceilings that transmit less sound.
3. More roofing materials that can be used and walked upon, so that wasted roof space can be converted into green areas in the hearts of our cities or used for recreation.
4. An ingredient added to concrete that will make it vapor-proof, watertight and even self-sealing, like a puncture-proof tire.
5. Better, more easily maintained finishes; finishes that are integral with structural materials, that can be sprayed on or in some other way easily applied.
6. More materials and assemblies for our skin type buildings that will stretch, breathe like skin.
7. Research into the causes and effects in buildings, for instance, as to how much infiltration through walls and windows may be due to negative pressure set up by mechanical exhaust systems or the stack effect in tall structures, rather than the walls and windows themselves.
8. More knowledge about the economic life of our buildings and what we can do to lengthen their useful life or reduce the present imbalance between the life of the structure and the life of the equipment.
9. Continuing search to find the ways to put decent housing within financial grasp of all of our people.
10. More data about human reactions to such things as lighting, ventilation, air conditioning, noise, size and location of windows, color, texture and form.
11. Better measures of what buildings do to people, so we can make schools, hospitals, office buildings, homes, greater sources of joy to those within them.
12. More ways to enlarge the possibilities of architectural expression in curtain walls and reduce their sameness.

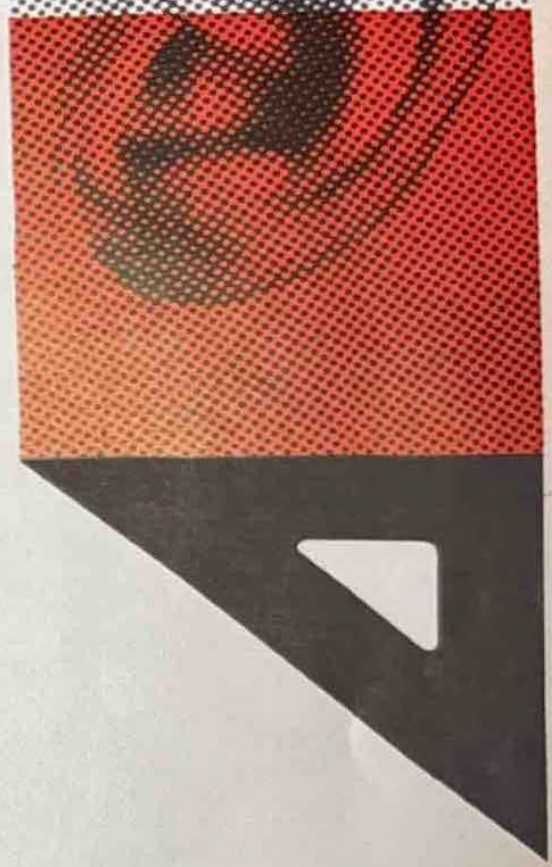
AIR CONDITIONING ENGINEER

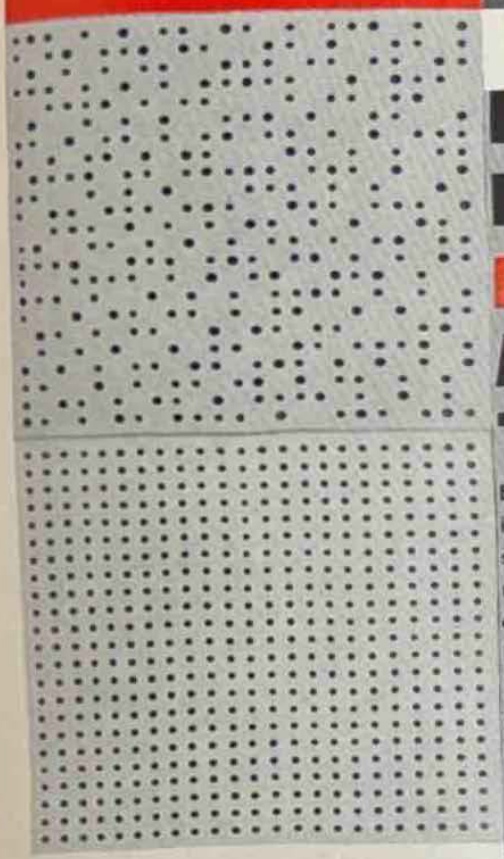
1. Investigation into population densities in buildings of all types, preparation of statistics on them and publication of results. The basic assumption of number of people per square foot in an air conditioned building often proves to be faulty, with the result that either too much or too little air conditioning is provided.
2. More study and creative work should be devoted to shading devices as an integral part of building design to reduce heat gain from the sun and lower the cost of air conditioning.
3. Study of the relative merits of different methods of insulating and vapor sealing, particularly in large roof areas, and the integration of insulation into the design of thin shell structures used in new architectural forms so prominently.
4. More data on the ultimate costs of various systems of construction—costs which include initial construction cost, interest, depreciation, amortization and the annual costs of operation and maintenance—to enable us to choose the best and cheapest method of construction in terms of the life of the building, whether it be 10, 15 or up to 25 years.
5. Research on acoustics as related to lighting, air conditioning and suspended ceilings, so that means may be devised to trap the sound above the ceiling.
6. Study of the effect of wind on the outside of a structure as it affects vents, air intakes, etc., and the deflection of wind by other structures adjacent to the proposed buildings which would influence its design and orientation.

BUILDING CONTRACTOR

1. Biggest problem faced by the contractor in the building industry is how to reduce costs and research on this problem must go on continuously in every branch of the industry.
2. Problem for the industry (not necessarily subject to solution by research) lies in the stage of budgeting, design and estimating. Too frequently

2 SOUND ACHIEVEMENTS





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the original budget allows no contingency for design decisions which might improve the building, hence the final verision of the design may be stripped down to a point where lowest possible first cost has become the overriding factor.

3. More time should be allowed in the design stages of a building for full consideration of the best that technology has to offer, where study is required.

4. Obstacles to the orderly, timely, efficient delivery to the site of bulk materials, manufactured items and subassemblies should be reduced to the minimum, as should obstacles to the efficient placing of these items in the structure to be built.

5. New components for buildings create new problems of their handling by labor because these bigger building units do not fit the traditional divisions of work by trades. The AGC labor organizations are collaborating to solve these problems and continuing consideration of them is greatly to be desired to keep pace with our changing building technology.

6. More study of temperature and humidity differentials on the several parts of a building, due to varying conditions prevailing on the outside and the inside, both during and after construction.

7. More knowledge about expansion and contraction joints for concrete slab and quarry tile roofs.

Problems for researchers on new products

1. Most urgent basic problem of product research is to define the research project in terms of its objective, instead of the fairly general practice of defining it in terms of specific solution.

2. Once defined, the problem should go through a period of imaginative, creative thinking by the people best qualified to understand it thoroughly or to profit from its solution—the buyer, installer, user.

3. Technical and practical solutions consistent with the end use of the product and the end user's maximum benefit should always be sought.

4. Site construction techniques are a fundamental and basic problem of the masonry industry and often of the rest of the building industry. We need to work with labor in terms of educational programs designed to stimulate the use of new products and labor-saving devices and thereby increase productivity, cut unit costs and enlarge total markets.

5. New product development must be based on coordination of the thinking of many different sciences and technologies and cooperation between all segments of the industry.

6. There is a big void in statistical information on characteristics, trends, etc., of commercial and industrial buildings. Research needs sources of such figures which will make it possible to find out where costs can be cut. Unbiased cost comparison figures are also vitally needed.

7. In working with segmented industry, the problem arises that new development may benefit one group more than another.

8. Problems arise when a material is used as an adjunct with many other building materials and the control of the final product is not in the hands of the original producer.

9. Automation must be more fully introduced into the production of building products in this country.

10. Concrete products must be lighter in weight and new methods of strengthening concrete products must be found.

11. Building materials consumers must be encouraged to bring their problems to the laboratory for solution.

12. With the greatly increased use of precast and prestressed concrete construction, research on these methods must be stepped up, especially in the field of offsite fabrication and delivery of components.

Problems for owners and operators of buildings

GOVERNMENT AS BUILDER AND OWNER

1. Government has problems in practice (not necessarily subject to solution by research) which are the counterpart of private industry's problems in the stages of design and budgeting for buildings. Government's problems stem from the length of time consumed for preparing budgets for buildings to be erected several years hence, for Congress to act on appropriations, and for revisions of designs necessary because of the time lag and changes in costs during this period. As a result, it is very difficult to keep design abreast of technical changes and the final design emphasizes a minimum first cost, to the detriment of design for lowest annual cost.

2. To overcome the problems impo by the requirements for competit bidding, government must carefu check the technical performance a quality of products to be sure th meet minimum requirements, th translate them into performance r quirements in specifications prior award. Evaluating products submitt on a particular project must be ma upon the specifications as advertise The building industry needs to d velop better methods to give gover ment all the technical and scientifi facts about new products and ma terials.

3. The building industry needs to fin more effective ways to help gover ment educate building inspectors, be cause they are such an importa factor in the erection process for go ernment buildings.

4. To get funds for research on build ings as complete entities, means shoul be studied of setting aside a sma portion of each building budget fo building research. Thus, the prob lems of special building types (school hospitals, government building could be subjected to research to im prove their functions.

PRIVATE OWNERS, OPERATORS

1. In the design stage of most build ings, there is always the problem o finding means to coordinate and ap ply the latest in technical research by the manufacturing industry to each design. Each design presents addi tional opportunities for specific re search by the architects and engineer themselves. Only in exceptional case are there allowances of time or money for such professional research. Th historical method of setting profes sional fees allows for no bonus to th designers for research that would sav money on the building itself. A way is needed to do this.

2. Research is done in the design stage—even to the extent of full-scale mockups—by a few outstanding ar chitectural firms working with en lightened owners. A way must be found to report the results of such privately conducted research to the building industry.

3. Every building develops it own par ticular faults such as shortcomings in lighting, acoustics, air conditioning performance of materials, etc. Experi ence of building managers and own ers should be collected and reported anonymously through a general clear ing house like BRI, as the starting point for new research on the physical problems of buildings.

Problems in housing research, urban planning, building economics will be listed next month

Some thoughts about school buildings: what they are, what they are worth, what they should cost

Our problem of ignorance

by LEON CHATELAIN JR.

SOME DOUBTS about our future are being raised today because we seemed to have lagged behind Russia in certain areas. To overcome this lag, there's a good deal of talk going on about how to catch up. Some of this talk involves us—the architect and the builder—and we had better pay heed. We had better pay heed because there's confusion and misunderstanding about public education. A good deal of this confusion involves school buildings: what they are, what they are worth, what they should cost.

The confusion comes from ignorance and this is a sad commentary on American life. The average parent and home owner is affected more by the condition of his schools than nearly anything else in his comunity life. His schools cost him money and affect the welfare of his children; they hit him in the pocketbook and in the family. Yet by and large, the public knows next to nothing about its schools. This ignorance is not confined to the proverbial John Smith of Everytown, USA. It has been disseminated recently by a number of prominent non-educational writers, thus compounding the confusion and, even worse, encouraging school boards to embark upon unwise and wasteful ventures.

In the matter of public education, basically, we are dealing with two kinds of things: those we know and those we do not know.

The architects and general contractors do know about the planning and building of schools, and the fact that many people do not know is our own fault. It is this story which we must tell, not for our own aggrandizement but because, without public understanding and public support, the building of enough good schools that combine quality with economy will not be possible. There are many opinions about school design and construction and also a number of facts. Here are some of the latter.

The cost of school buildings has doubled in the past 20 years, due to advances in the price of land, materials, labor and other expenses. Yet during this same period in which school building costs doubled, the costs of building generally has tripled. In the difference between the two figures lies a real tribute to the dedication and ingenuity of the nation's educators, contractors and architects. The fact is that the school building is still the best bargain, dollar for dollar, on the building market today.

Yet some people claim that schools are overpriced and represent a heavy tax burden upon the homeowner. Are they a tax burden? The simple fact is that if schools were built for nothing at all, it would make very little difference on the average tax bill. Let's say that John Smith receives an annual property tax bill of $200. The chances are his bill will show that about half or $100, will be spent for education. But of that amount, only about 10%, or $10, will be spent on his municipal school building program. In other words, Mr. Smith's share of his comunity's school building costs will cost about the same amount he would spend in one evening by hiring a baby sitter and taking his wife to dinner and a movie.

If school building increased at the same pace for 15 years, Mr. Smith would pay about as much for his new school buildings during that time as he spends on one modest television set. This does not seem unreasonable.

The substantial expense of school buildings is the interest paid on financing and the annual cost of maintenance and repair. For this reason, we have this seeming paradox: only the wealthy community can afford a cheap school. We reject the argument that school buildings should be monuments. We feel that we won this argument many years ago. We can save money by avoiding the trappings and ornaments of the past—the fake columns, the parapet roofs and the gingerbread. Forcing schools into a certain "look" adds nothing to education, creates community eyesores and wastes imagination and money. Contemporary design is simply the freedom to solve a problem without boxing a building into an artificial style.

Recently several writers have stated that schools are being designed as palaces and that they're costing too much; that this is so because educators, architects and contractors want it that way. This is sheer nonsense. In each of these diatribes, the writers have pointed to two or three specific schools as examples which prove their statements. The alleged high cost of one of the schools was cited over and over again. However, no one mentioned that the community in which the school is located has an average annual family income of $21,000. Who are we, or anyone else, to say that the citizens of this rich suburb wasted their money by buying a truly first-class school?

On what should they have spent their money? Has anyone criticized them for buying new cars, new clothes, and new TV sets? Since when is a school less important than incidental, personal luxuries? It seems to me there is a serious question of human values at issue here.

Money can be saved on schools. Of course it can. But it is rare when very much of it can be saved on the jobsite. The real savings to the community accrue through long-range planning of school buildings. A 10-year advance program is not unrealistic. Community studies on population trends, projected location of industry, residential building plans and zoning development can be made at great future savings to the community. Planning targets can be adjusted from year to year. Architects are given time to make thoughtful design studies. Contractors may bid more accurately. Jobs are not dumped together on saturated building markets which deprive the school board of bidding competition. School boards are not stampeded into rash decisions and cut-rate schemes. Communities are not persuaded to accept temporary "package" buildings, fabricated without professional advice and without the needs of the individual site and educational program in mind.

It may seem a new thought to some, but the fact is that it would be hard to find two municipal school systems in our entire nation which teach the same thing in exactly the same way. This is basic to American education. As the architect and contractor know, seemingly minor changes in teaching methods and material can make substantial differences in the school building. Take a science classroom, for example. Will the students be taught mainly at their desks or while standing at the chalkboards? The answer to just this one question will affect the amount of wall space needed, the size of the wall boards, the amount of

Excerpts from an address delivered by the national AIA president before the 39th annual convention of the AGC in Dallas.

storage required, the type and size of seating equipment, and the intensity and location of lighting.

When you add to these questions of curriculum and method the peculiar needs of the local soil, the climate, the degree of natural light available and the availability of materials and labor, you begin to realize why educational facilities cannot be mass-produced on a stock basis.

Besides long-range planning and design tailored to specific community needs, permanence of building is essential to economy. Consider the cost of replacing temporary buildings—not just the construction but the financing. The difference between a 2 and 3% interest rate can be 21% of the cost of the entire building. Today's school should be built of first-class materials and it should be built to last for 40 years. This is not incompatible with flexibility. The good school is situated on enough ground to allow for expansion. It is designed so that additional units can easily be added without tearing down existing walls and laying new utility lines. It is designed, as we like to say, for ultimate use.

I hope I have not given the impression that we know all there is to know about designing for education. One considerable area of uncertainty concerns the psyhcological effects of architecture upon man. There is considerable hope that we will shortly begin to find out many new things about this subject. The National Science Foundation has granted a sum of money for us to hold a conference, which will include psychologists and sociologists, to define needed areas of basic research in architecture. These definitions have not yet been made but I believe it can be predicted fairly that some of them will have to do with finding the answers to questions about human scale and the psychological effects of color.

We know, for example, that lower ceilings cut down the cubic footage of a room and, all things being equal, help reduce the building cost of the unit. However, what effect does this have on the students in a schoolroom? We really do not know. This may seem a rather obscure question. But it is not when you consider that the design of one building can give the occupant a sense of freedom and space while another, containing the same square footage, seems to cramp and constrict. We know this much by observation. We also know that we must find out the why to these questions before we can do as much as we should to design a building which materially encourages the learning process.

Let us examine another part of the educational problem. There is an avalanche of effort today to provide more and better scientists through public education. As architects, the people who plan human environment and whose work must be tailored to the function of the structure in question, we are greatly interested in this subject. Frankly, I had intended to come before you today with recommendations of a specific nature on what we should try to do about improvement of public education. However, the things which we do not know and cannot find out are so vital to a clear understanding of our educational condition that a clear-cut recommendation is ill-advised.

The United States Department of Health, Education and Welfare has proposed a far-ranging scholarship award program to worthy high school students throughout the nation. When we heard this, we immediately thought of the logical connection between the awarding of scholarships—mostly for science students—and the need for physical facilities in the schools. It doesn't make much sense to have one without the other. We've been told by Secretary Folsom that we're in trouble because only one out of three high school students get a year of chemistry, and only one out of four take physics. It seemed to me that someone should speak out about the obvious need for new and better classroom facilities for science. It did, until my staff looked into the subject a little further. The available facts were, to say the least, confusing.

According to the Department of Health, Education and Welfare, 92% of the senior high schools in the country were offering chemistry and physics in 1956. But, at the same time, only 36% of the senior high school students were taking chemistry and only 26% were taking physics. The figures seem to show clearly that the facilities are there, the courses are available, but the students just aren't taking them.

There is another disturbing factor here. The figures themselves don't tell us what kind of facilities our schools have; what sort of programs are being offered. Are they good programs? We couldn't find out. Several educational organizations have told us within the past few days that they're just now planning to find out. The National Science Teachers Association tells us that we don't even know how many science classrooms in the country have gas, electrical outlets, and running water. In this proud nation of pushbuttons, new car styles, color television and the chemise, this is lamentable ignorance.

There is another element which is much harder to measure. This is the imagination and interest of the teacher. The best laboratory in the country won't produce a good science program if the teacher is inadequate. However, it can be argued that an imaginative teacher can conduct a good science program without elaborate classroom facilities. Physics can be taught with a book, a buzzer, a dry cell and a few brain cells. A running stream near a schoolhouse can be used for water-flow experiments and chemical analysis. Another question we must ask concerns the number of science students we want. Is it a bad thing that one out of three high school pupils takes chemistry? Isn't that enough? Will mass scholarships and more facilities produce Einsteins? Would more music schools produce Beethovens? You can encourage geniuses but can you mass produce them? It is relatively easy to raise many serious questions concerning all of the crash programs which have been outlined to us.

Obviously, we need a thorough understanding of our assets and needs before we can draw enough solid conclusions to put us on the proper path. This is of more than passing interest to architects and contractors, because the improvement of teaching methods and curricula will inevitably lead to improvement in the physical facilities of schools. One leads irresistably to another.

From what we now know, I offer several personal observations. They are not original or new yet I think they are valid. We do know that we need more school buildings so that classes do not become too large for effective teaching. We do know that we should pay our teachers more, much more, in order to get and hold the best possible people for the important job of teaching.

I believe we also face a fundamental problem of reassessing our thinking about education. We cannot turn back the clock and say that everything will be much better if we just reconcentrate on the three R's. There are no longer sharply divergent schools of progressive and conservative education. Experimentation is always necessary to progress. In many American cities today, school boards are experimenting with teaching by means of closed circuit TV systems. This can hardly be called a frill or a waste of money.

I do think, however, that we need to place a good deal more emphasis on scholastic excellence, on competition among students within the school-

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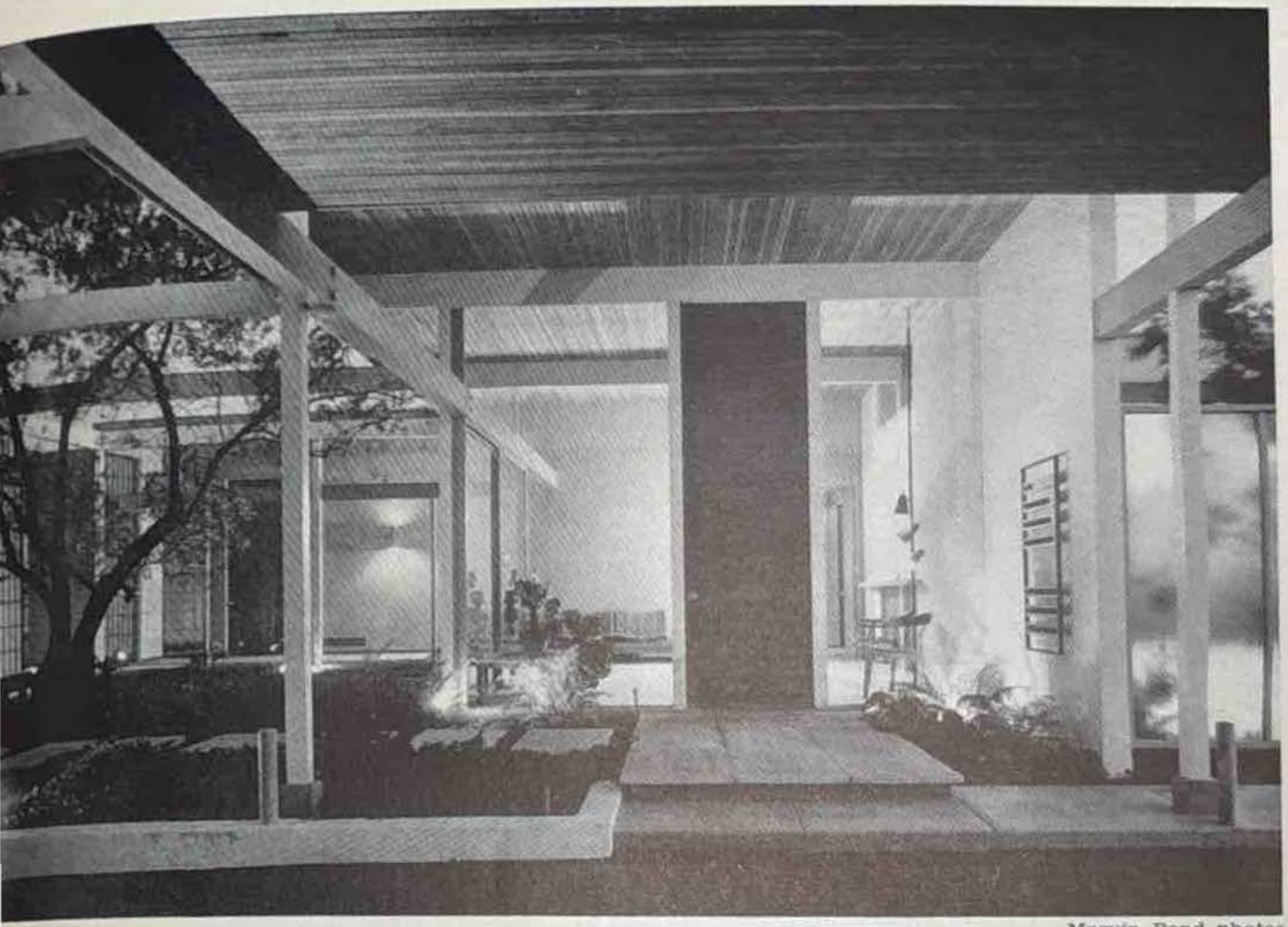

Marvin Rand photos

Detailed with 'great maturity and restraint'

Attorneys' Office Building
Clock, Waestman, Clock
Long Beach, California

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KILLINGSWORTH, BRADY & SMITH
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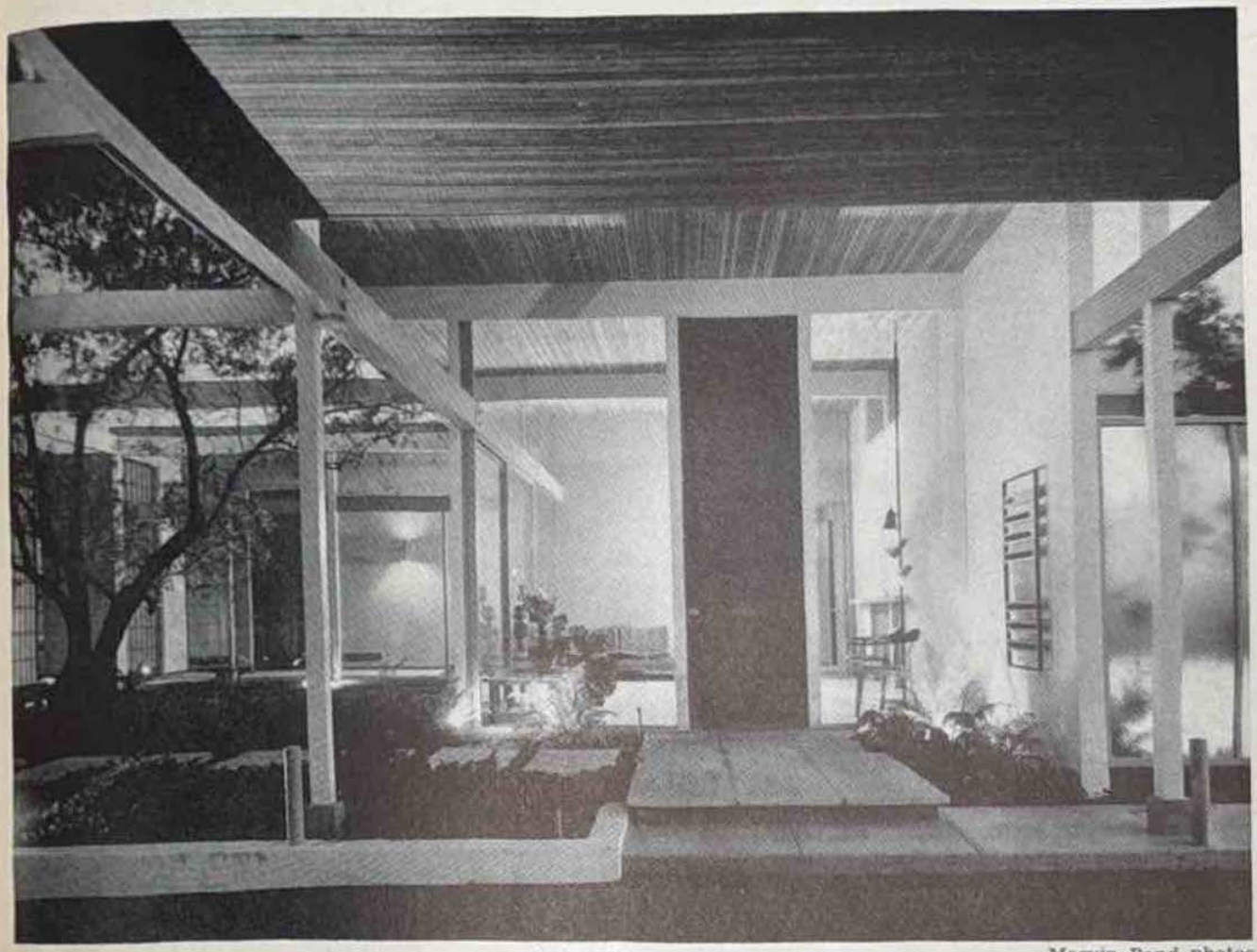

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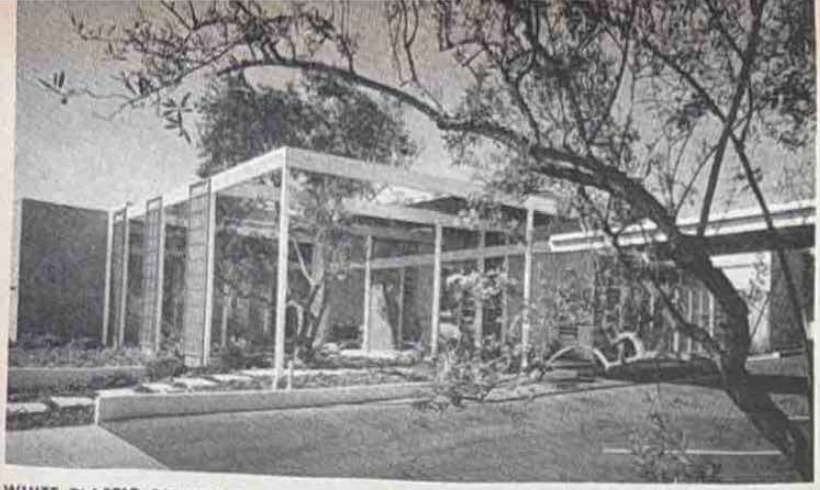
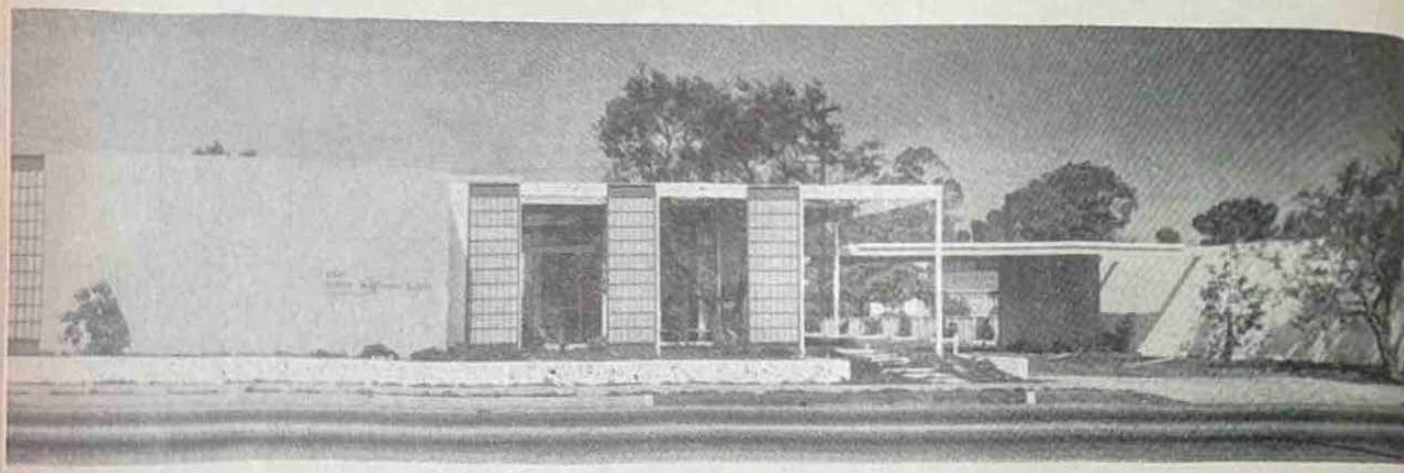
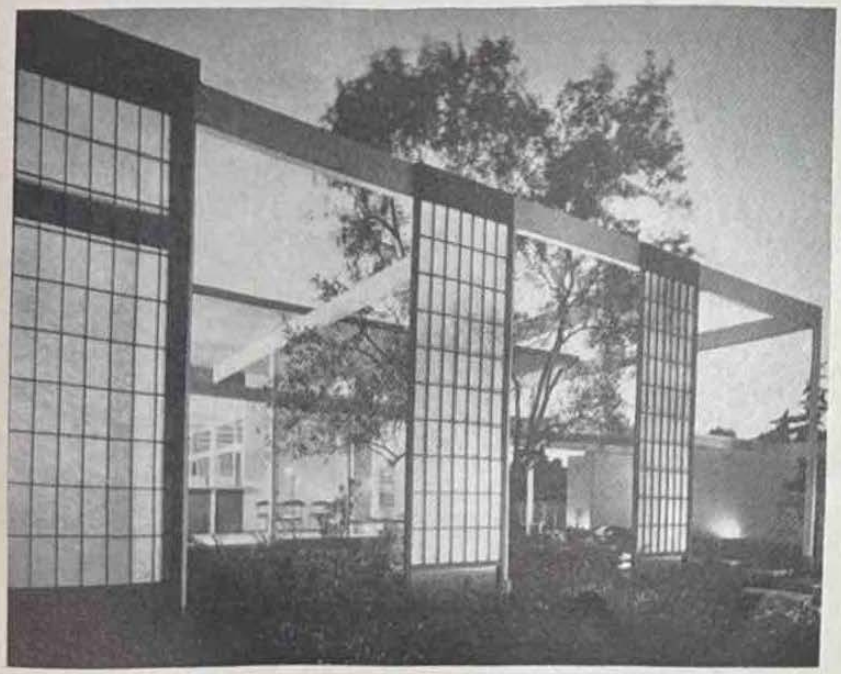


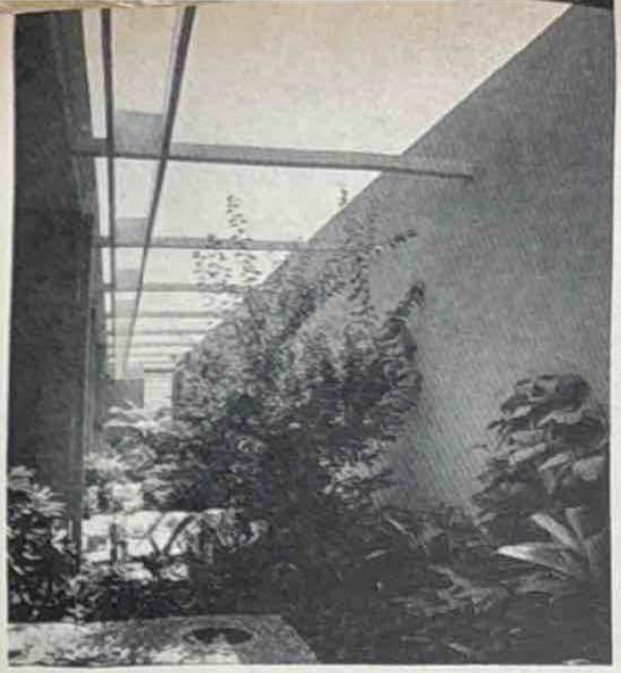
WHITE PLASTIC SCREENS framed with cool brown Douglas fir provide partial shelter for reception room. Building identification is in bronze letters on sand colored, painted concrete block wall. Pale blue also is used for exterior accent.

SITE of the building occupied by a long-established conservative law firm is a 100x130-ft. business lot on a noisy major boulevard. White concrete stepping stones lead through a garden to a reception room with glass walls which are partially sheltered by tall decorative screens at the front of the structure. Six offices for the attorneys extend along the south and west overlooking a 12-ft. wide quiet terrace. Projecting walls separate the offices, each having access to the garden through sliding glass doors. The secretarial pool is developed with individual cubicles to give each employee privacy when seated and a view into another sheltered area. Coffee and lunch room, as well as a lounge, take advantage of this same garden view. The library too has an intimate court which it shares with the rear entrance.



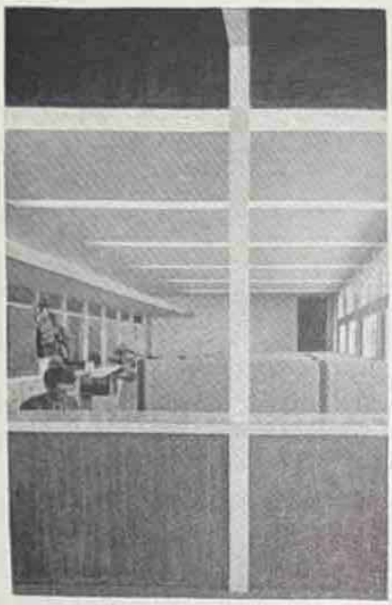


In selecting the project as one of the finest five in a competition sponsored by the Southern California Chapter, AIA, the jury commented: "The small lot is almost completely enclosed; and as a consistent theme, every interior space has its own individually designed court outlook. . . . The quality and dignity of the structure upgrades the whole neighborhood. Every detail has obviously been designed with loving care, yet with great maturity and restraint."

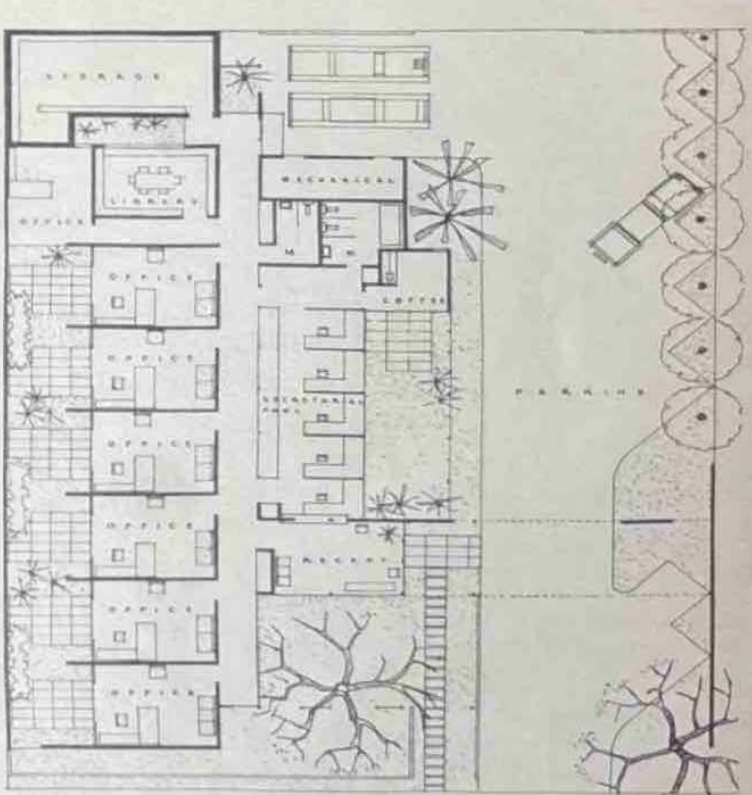


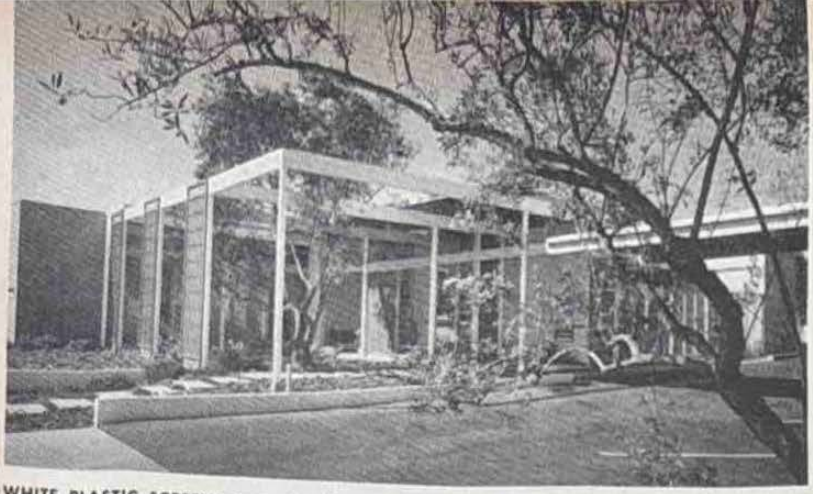
OUTLINE SPECIFICATIONS

Structure: concrete slab floor.
Exterior Walls: plaster; concrete block.
Roof Surfacing: composition with white porcelain granules.
Windows: steel casement.
Doors: sliding glass—Arcadia Metal Products.
Floor Surfacing: vinyl tile—Robbins Floor Products, Inc.; carpeting.
Interior Walls and Partitions: fir studs, plaster.
Ceilings: acoustical tile.
Insulation: rock wool.
Lighting: recessed flourescent.
Heating: built-up air conditioning unit with flexibility for zoning.
Total Area: 4,558 sq. ft.
Date of Completion: January 1957.



COURTYARD AREA (above) as viewed from private office (below). Sun shade is offered by overhead louvers. Secretarial pool is located behind reception desk, which features white plastic covered counter with black walnut facing. Interiors were done by Stan Young of Frank Brothers.





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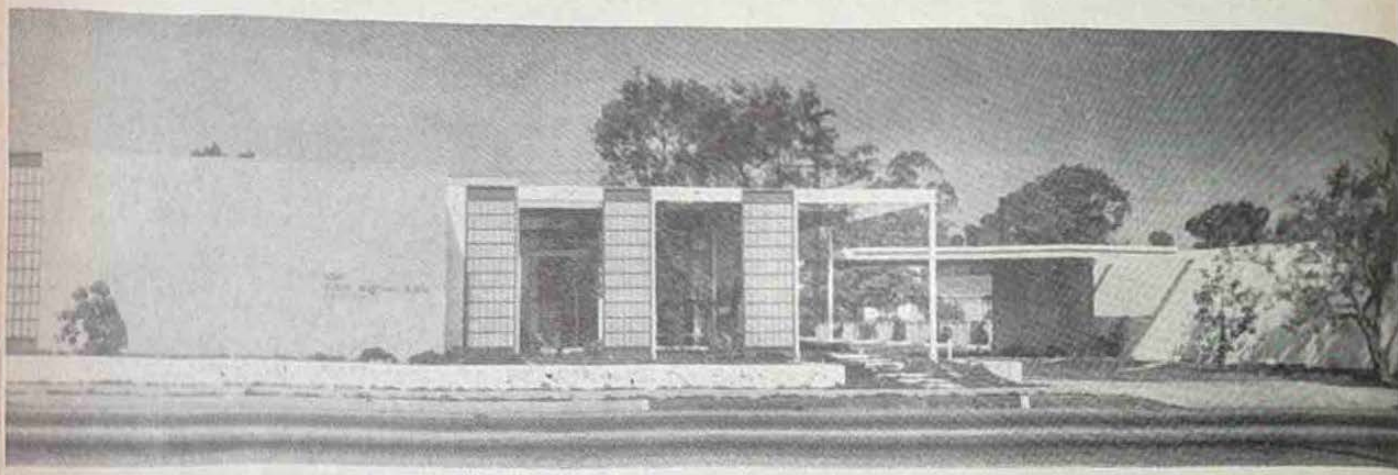

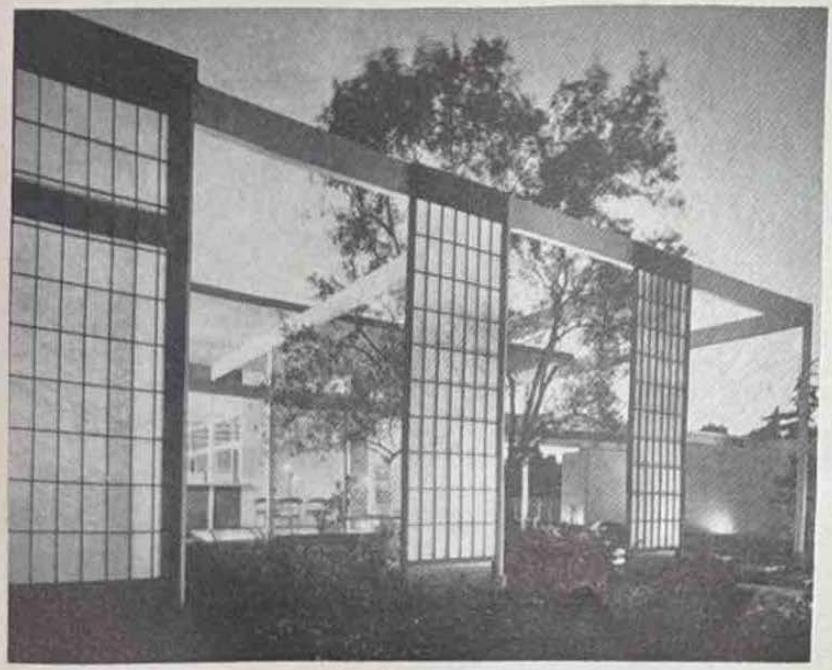

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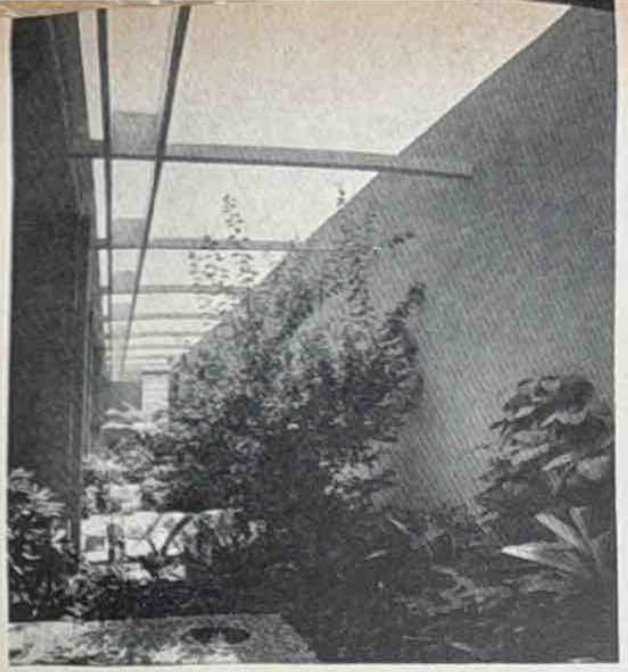

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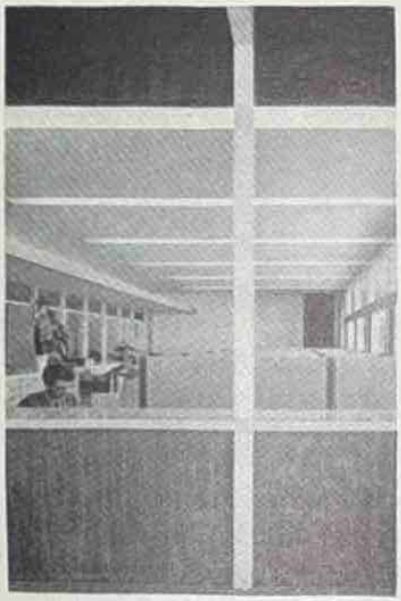

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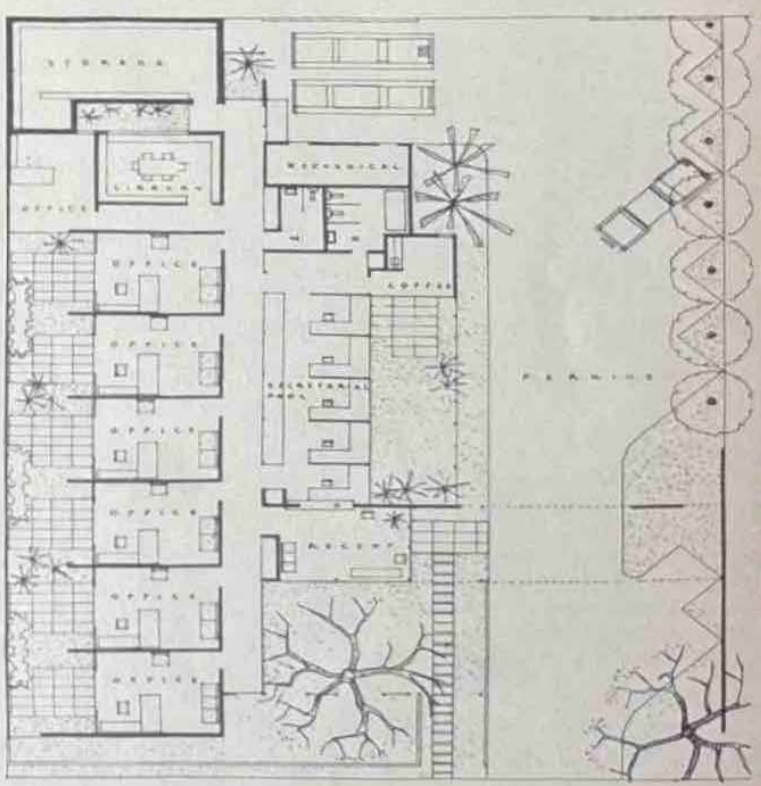
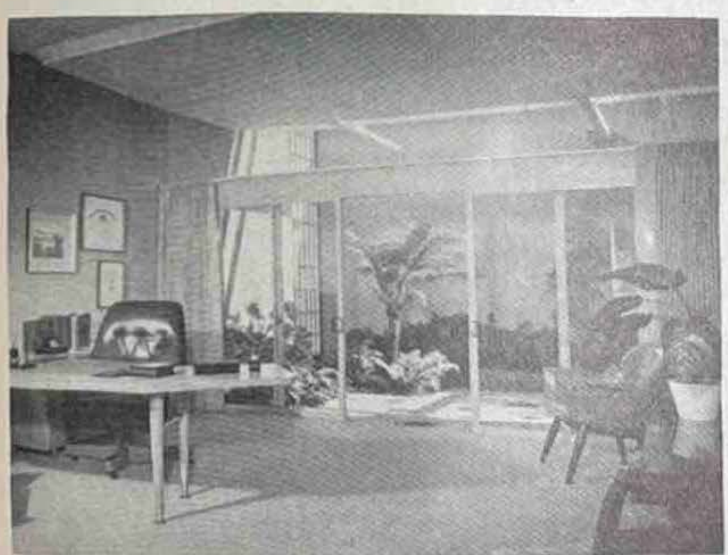




Shoppers Paradise

Experiment in downtown revitalization, headed by an architectural firm in Springfield, Oregon

CONCLUSIONS

TRAFFIC BY-PASS	By-passing of through vehicular traffic around a shopping area is essential—a principal which the shopper accepts but the merchant resists.
PARKING FACILITIES	Shoppers appreciate the conveniences of easily used parking spaces within reasonable walking distance of the shopping area, though merchants object to the idea of eliminating parking at their front doors.
WALKER FREEDOM	Flexibility of shopper movement is provided by a mall organization of shopping areas, but the mall's physical limits are determined by how far shoppers will walk.
SHOPPING ENVIRONMENT	By utilization of a few simple devices, the shopping atmosphere of a downtown area may be made more pleasant and interesting and the buying habits of its patrons completely changed.

SHOPPERS AND MERCHANTS who participated in Springfield's 10-day experiment in planning last August expressed varying opinions on its success, which the project promoters have summarized in a 34-page evaluation.*

Springfield, with a population of 13,500, is just across the Willamette River from Eugene (40,000). Each day more than 10,000 cars and trucks move through the heart of the city on Main Street—State Highway 126. During Shoppers Paradise the highway was by-passed one block to the north of the business area, separating the through and local traffic. Thus Main Street became a pedestrian mall. Parking lost in this area was compensated for by the use of ends of Main Street adjacent to the mall as diagonal lots, in addition to three other adjoining streets.

To help further the experiment, trees and benches were provided, relaxing music replaced traffic noise, art and industrial exhibits were displayed and stores remained open until 9 p.m., with a short entertainment feature presented on each evening.

How did all of this come about? Late in 1956 the Chamber of Commerce and the City Planning Commission recognized symptons of physical deterioration in downtown Springfield —some empty store buildings, lack of maintenance and upkeep of many others, far less retail volume then other Oregon communities of comparable population—and initiated a study to reevaluate its functions. Both the original studies and detail work on the experiment were done by architects-planners Lutes & Amundson (Donald H. Lutes, AIA, is City Planning Commission chairman); consultants were landscape architect Wallace M. Ruff and painter Andrew Vincent; cooperating agencies were the City of Springfield and the Oregon State Highway Commission.

Backed by a fanfare of publicity, the experiment got underway August 15 with these four objectives:

- Relieve traffic congestion by rerouting through traffic.
- Provide easier to use and reasonably convenient parking facilities.
- Permit the shopper to accomplish an entire shopping trip as a pedestrian, without conflict with auto and truck traffic.
- Provide the shopper with facilities not normally found in downtown shopping areas, such as the benches, landscaping, etc.

Upon completion of the 10-day period, the publicity committee polled shoppers with postcards and merchants with questionnaires to determine reactions in four categories, conclusions about which are found at the top of this page. In each case results were tabulated under two headings, those who thought the experiment was a success and those who did not. Reactions from merchants off the mall were included.

While the survey in most instances showed mixed emotions, there seemed to be complete agreement that truck traffic is detrimental to Springfield's downtown area. For so short a period, the changed traffic pattern was confusing to some people and appeared to affect some businesses, but the usual peak hour congestion was eliminated.

The evaluation says that an existing downtown area such as Springfield's must correct two basic problems in order to compete favorably with the integrated shopping center:

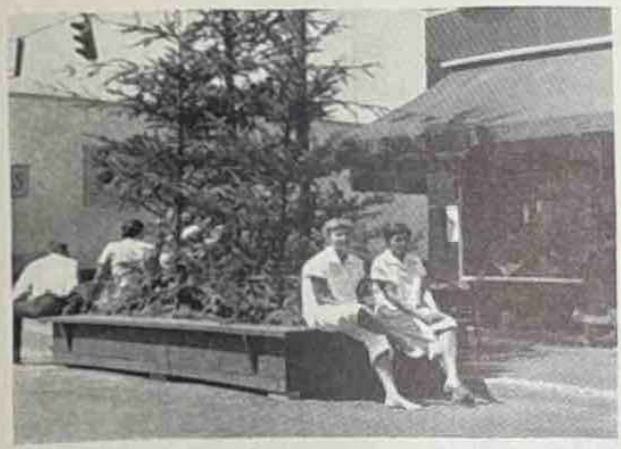
1. It must change its antiquated physical plan, such as was done during Shoppers Paradise. The basic objectives of the plan tested were proved valid; many of these objectives have already been proven in shopping centers and this experiment was only an application of them to an existing downtown area.

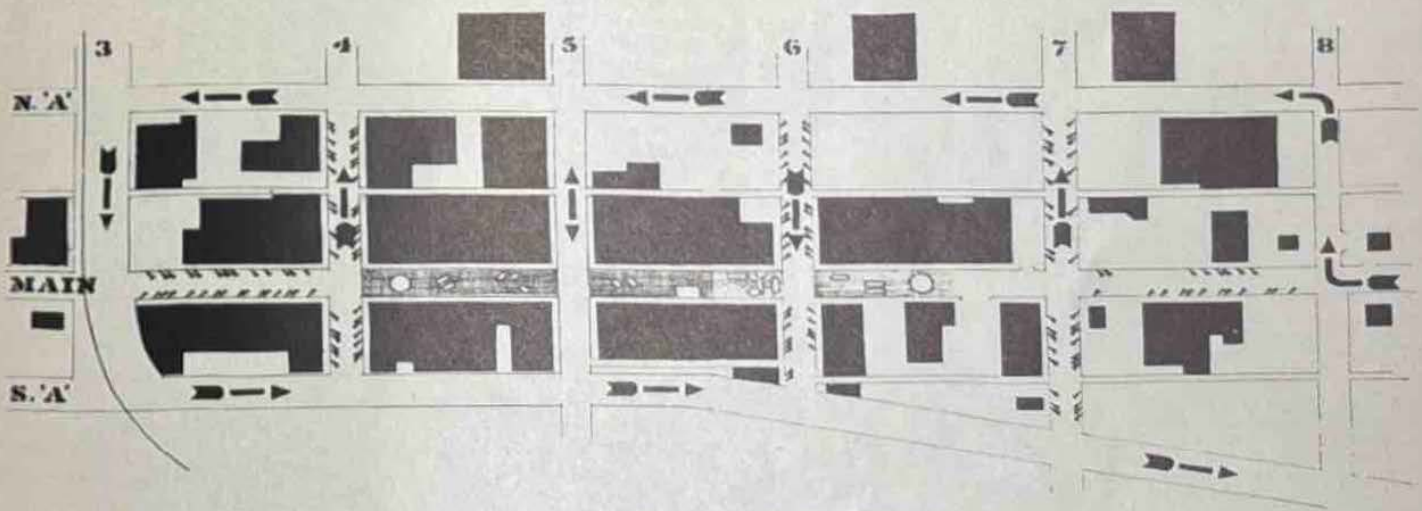
2. Even more difficult to accomplish is a change in downtown attitude. During Shoppers Paradise the downtown merchants worked together as never before, but even this cooperation was limited. A new spirit of understanding by the merchants of Springfield is a prerequisite to their progress in the directions of downtown revitalization suggested by this analysis.

* The evaluation is available in quantity for $1 per copy by writing to Box 155, Springfield, Ore. Thus far requests have come from cities in 33 states, Hawaii and Canada.

A 24-minute sound movie of the event also is available at a rental fee of $5 plus postage and will start on a second tour August 15. The film tentatively has been scheduled for showing in the following California cities during the latter half of March and the first half of April: San Diego, Long Beach, Los Angeles, Whittier, Oakland, Berkeley and Modesto. It has been seen by more than 1,000 viewers in 14 cities of western Oregon and Washington.

SHOPPING ENVIRONMENT during experiment takes on carnival atmosphere, with sidewalk dining, music, exhibts and nightly entertainment. Some reactions: "More incentive to linger and spend money." "Who wants to go to a fair every time he shops?" "It's the music—I haven't had a single angry customer all week."





MAP OF DOWNTOWN SPRINGFELD shows how Main Street traffic was rerouted one block to north, allowing use of area as pedestrian mall. Diagonal lines indicate streets used for parking.

WIRE SCULPTURE designed by architect William C. James, executed by Louis Lovejoy. Chas. R. Pearson

City hall in the Inland Empire

MILLWOOD (WASH.) CITY HALL: Built for $40,000 or $10 per square foot, this pleasant civic structure just out of Spokane serves a number of community functions. A split-level entry provides easy access to the council chamber, reading room, offices and small kitchen on the main floor, while allowing a fire truck to use a level approach to the lower side of the building. Council chamber and reading room are designed so that they can be opened up for larger meetings.

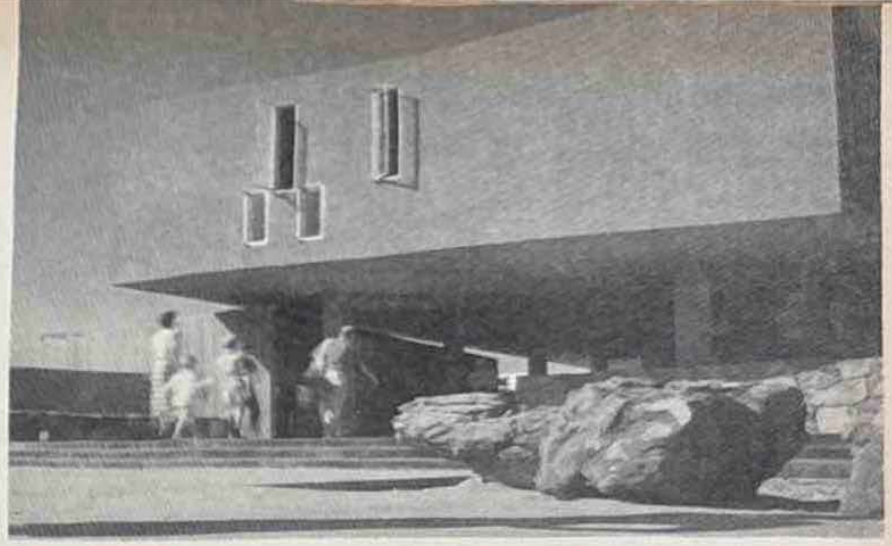
Exterior is of red rustic roman brick and 2-in. grooved plywood; roof is 2x12-in. joists 16 in. o.c., with diagonal sheathing. Main floor has Philippine mahogany plywood paneling and doors, fissured fiber acoustical ceilings and vinyl asbestos tile on thin concrete slab which carries radiant heat coils; lower level has plasterboard walls and ceilings and fir or spruce garage doors of the five-section overhead type. Architects: Eddy, Carlson & James; general contractor: Hefte Construction Co.

Showcase in the desert

J. W. ROBINSON STORE, PALM SPRINGS, CALIF.: Most striking feature of the pavilion type retail structure is the serrated "airfoil" roof which is supported independently of the nonload-bearing exterior walls and floats over column supports, acting as an umbrella for the glass enclosed sales area. Elevated light apertures above the main selling floor provide still more daylight and a view of the mountains to the west of the building. An air conditioning system distributes air through an acoustical ceiling material and with the absence of grilles.

In addition to the large sheets of glass on the street frontages, a special tile of marble and quartz aggregate is used on the exterior. A terraced platform accomodates the land grade and direct access to the store is available from a landscaped parking area. Architects: Pereira & Luckman, with James H. Langenheim in charge of design; general contractors: Robinson & Wilson, Inc.

STORE is oriented to desert sun and vistas by use of glass walls, has serrated "airfoil" roof. Julius Shulman



ENTRANCE CORRIDOR is colonnade of semioval pillars set at oblique angle; above are nine hotel rooms overlooking pool area. Radiant heated pool is surrounded by irregularly shaped patio with grill snack bar at one end.

Glass walls to enjoy the view

MISSION VALLEY COUNTRY CLUB, SAN DIEGO: This club which caters to the middle income bracket has golfing (27 holes and pitch-and-putt) as its primary purpose, but also offers swimming, dining and dancing for a potential 1,000 members. It was planned for a confined site on a major highway, with a driving range on adjacent leased ground.

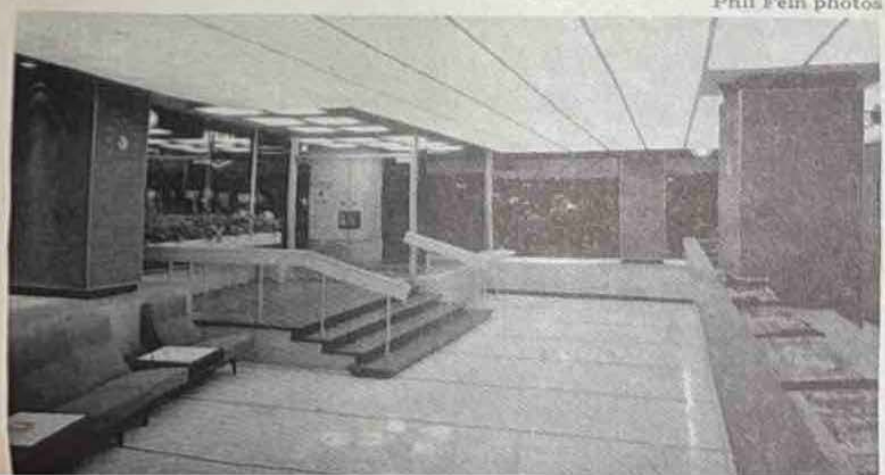
Of exposed steel frame construction, the main building has extensive areas of glass which provide a view of the greens and clubhouse from almost any point. Principal facilities: main dining room with dance floor, open grill which can be closed off and wall-suspended fireplace; grill room for more informal dining next to the pro shop; garden room overlooking the driving range; and lounge with fireplace and view of the course. Architect: William F. Cody; general contractor, Carl Muehler.

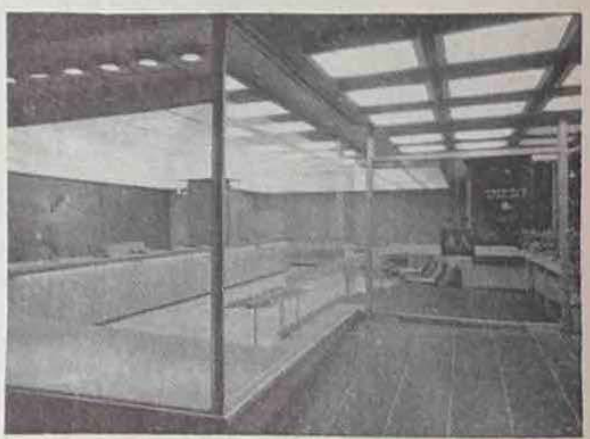
Glass walls to entice customers

AMERICAN AIRLINES TICKET OFFICE, SAN FRANCISCO: In planning an office in Union Square, downtown airline ticket center, the architect was faced with three major problems: 1) space had to be provided within the existing conservative St. Francis Hotel; 2) geographically, the area offered intense competition from other airlines; 3) space available was small, complicated by columns limited in height by a mezzanine floor above, belonging to another tenant. As a further challenge, the floor level was below the sidewalk except at the extreme southeast corner, the least desirable location for the entrance; and the only long wall available had a north orientation, making it a potential "mirror" for a competing airline.

It was decided to provide a corner entrance and use the higher sidewalk elevation to advantage by allowing customers to approach the ticket office from above, giving them a clear view of the entire counter. Exterior walls were developed in glass to produce an impression of openness, accented by a spandrel made up of black marble and quartz chips in a black matrix. A luminous ceiling combined with wall surfaces and floor coverings light in value to a large extent overcame the mirror problem. Architect: Hewitt C. Wells; general contractor: Swinerton & Walberg Co.

LUMINOUS CEILING provides about 75 foot-candles, eliminates spotty fixture lighting, creates illusion of greater space. Wall paneling and ticket counter are of white ash.
Phil Fein photos





Gardens on one side, lagoon on the other

Speculative House
Allen & Rice, Developers
Belvedere, California

•

GEORGE T. ROCKRISE
Architect

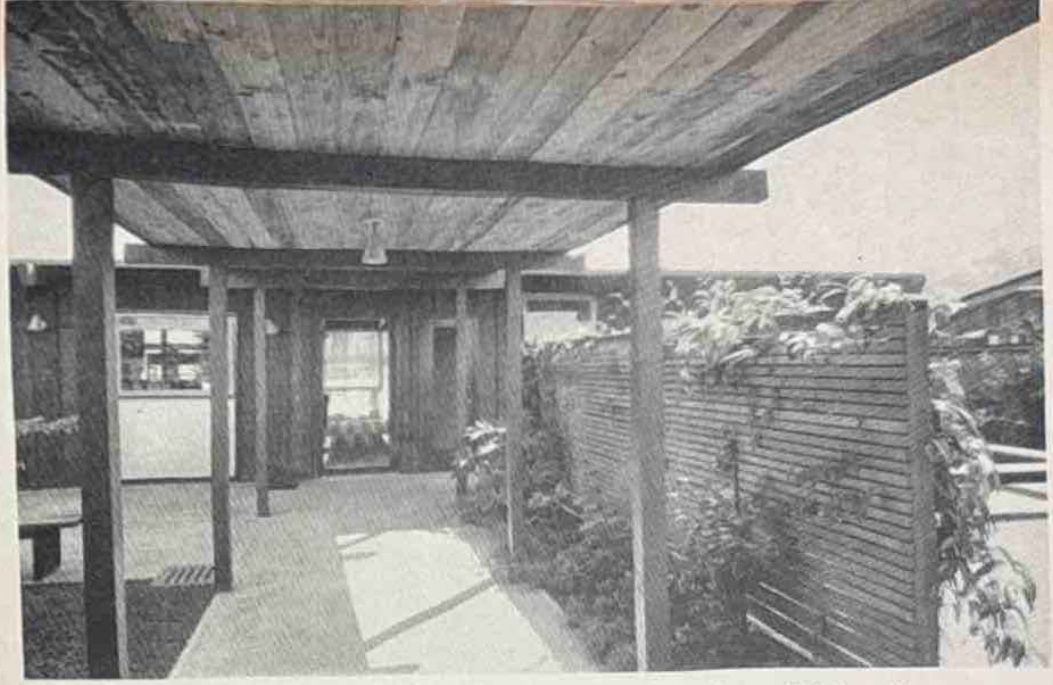
SHARP & ROBINSON
Contractors

THE PROBLEM was to design a three-bedroom, two-bathroom house, with a two-car garage and workshop and to completely develop the waterfront, including beach, wading area, boat facilities, shelter and veranda. The structure itself had to offer utmost privacy, full utilization of the view toward the lagoon and the greatest possible use of land area (65x100-ft. lot), all combined with simple and direct construction; internal planning had to be flexible to create maximum utility and buyer interest.

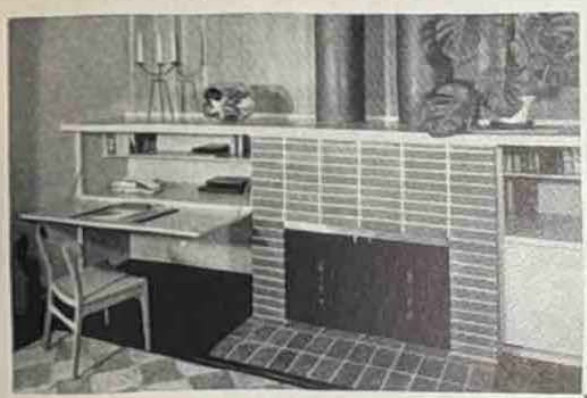
The result is a 1,510-sq. ft. house, a rectangle 28 ft. by 54 ft. 4 in., with a minimum of hallways. The garage is at the front, set back to conserve site space and give light and air around the perimeter of the house, located close to the water's edge to emphasize the marine feeling and to provide sheltered gardens and a play yard on the land side. Living, dining and play areas are planned as one 13½x40-ft. room, partitioned with movable cabinets to permit combinations of use as well as furniture arrangement. The open kitchen, placed in the center of the house, is easily maintained and has a view of both the lagoon and entry garden. An adjacent laundry-work area may be shut off from the play area with the movable cases. The master bedroom is treated as a separate suite with its own private garden.

The house has a board and batten exterior, with 1x4 t&g fir paneling in the living room and entry. Roof beams and floor framing are supported by one central longitudinal wall; ceiling is of exposed beams with 2x6 t&g planking.

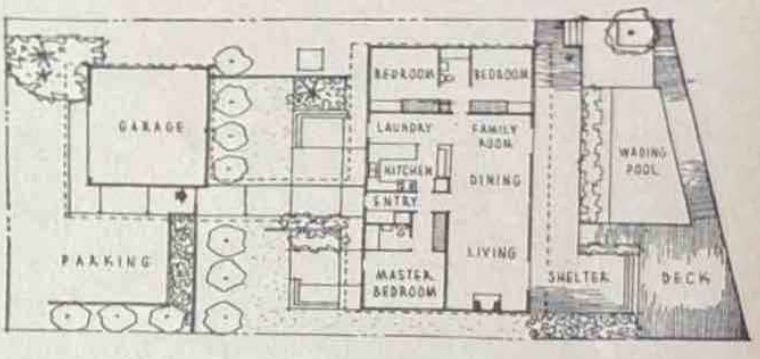
PARTIALLY SHADED DECK encloses wading pool, feasible because lagoon is kept at constant level from spring to fall.



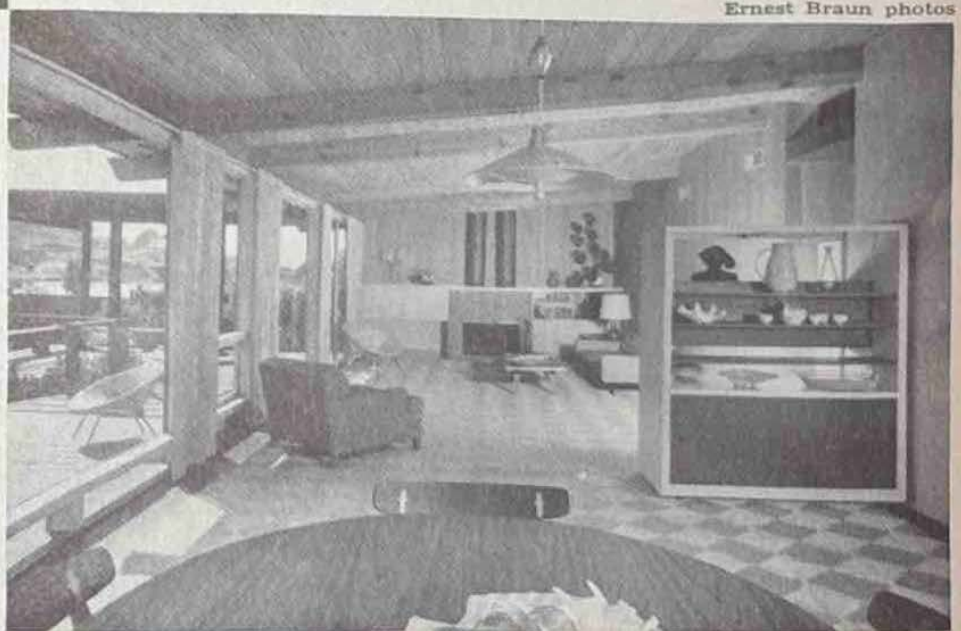
ENTRANCE LOGGIA connects garage to house and bisects garden, which has direct access to kitchen at left and becomes private patio, behind fence, for master bedroom.



LIVING-DINING-PLAY AREA is 40 ft. long, can be converted in various ways by three movable cabinets, on concealed casters, that lock into place. Glass wall on lagoon frontage visually relieves narrow dimensions. Desk, woodbox and shelves at living end are built in.

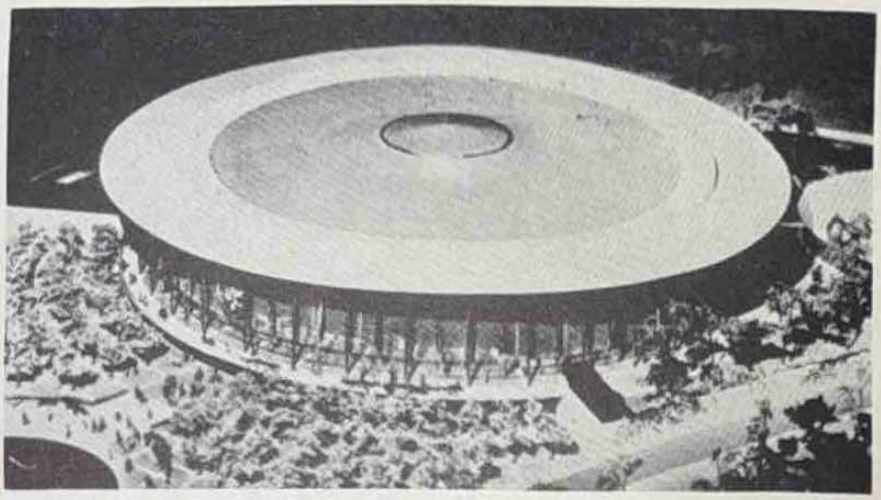


Ernest Braun photos



OUTLINE SPECIFICATIONS

Structure: post and beam 2x6 t&g roof; frame floor.
Exterior Finish: board and batten.
Windows: wood and steel.
Doors: sliding glass—Arcadia Metal Products.
Floor Surfacing: oak.
Partitions: frame.
Interior Finish: 1x4 t&g groove fir paneling; gypsum wallboard (Sheetrock) — United States Gypsum Co.
Ceilings: 2x6 t&g planking between exposed beams.
Insulation: 1-in. rigid in roof.
Heating: hot air, gas fired perimeter type.
Total Area: 1,510 sq. ft.



UNITED STATES PAVILION at Brussels World Fair is topped by plastic roof resembling bicycle wheel 380 ft. in diameter, with outer concrete rim connected to inner metal ring by steel cables.

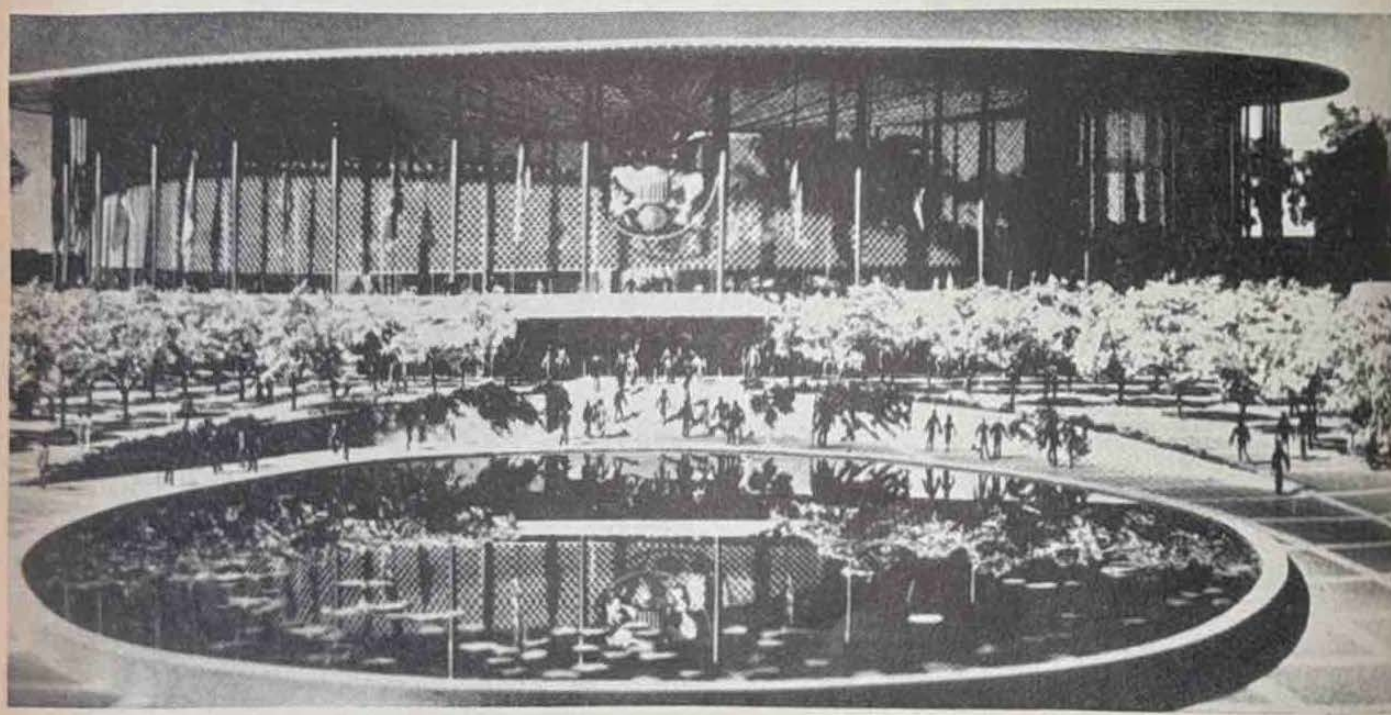
72,000 sq. ft. of plastic roof helps sell America abroad

WORLD'S largest plastic roof, designed like a bicycle wheel and incorporating a number of architectural firsts, encloses the United States Pavilion at the 1958 World's Fair in Brussels and provides extremely flexible exhibition space in an area equal to two football fields.

A modern version of the Roman Colosseum and costing an estimated $5 million, the classically styled circular pavilion is 341 ft. in diameter and 85 ft. high. It is the work of New York architect Edward D. Stone who was commissioned to design the project by the State Department at the suggestion of the American Institute of Architects.

The overhanging roof has an outer rim of reinforced concrete connected to an inner metal ring by two layers of high tension steel cables 2¼ in. thick. The cables, corresponding to the spokes of a wheel, are tightened by turnbuckles. They are then held under tension by the weight of the 66-ft. diameter inner ring which frames a dramatic open air dome.

The cables are topped by a tranlucent plastic roof made up of 2,100



structural panels recently developed by Kalwall Corp. of Manchester, N. H. These panels form a doughnut shaped band 128 ft. around the center ring. Circling the plastic roof is the 54-ft. wide concrete rim which rests upon two concentric rows of gold colored steel columns.

To attach the panels to the cables, the manufacturers devised a special joining system (see sketch) that may well be a prototype of similar roof systems in the future.

Steel purlins were designed to straddle the cables at 10-ft. intervals, the length of the panels. Placed on the purlins, the panels are joined by slender T-shaped aluminum extrusions, one on each side, supplied by Dixie Corp. of Rome, Ga. They are secured to each other by means of interior bolts. These bolts also connect beneath to steel clips which in turn are bolted to the purlins. A mastic seal makes all connections watertight. The system allows for wind movement, expansion and contraction.

Effect of the translucent roof, says James Ellet, Kalwall's general manager, is to invest the structure with a classical simplicity and an unusual feeling of lightness.

Metal mesh ceiling

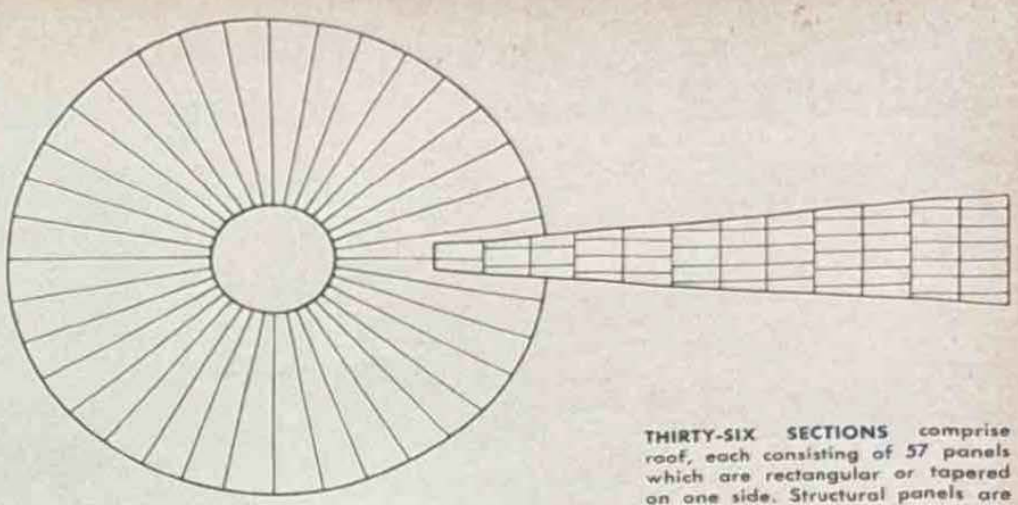
Another feature of the pavilion is its ceiling of metal mesh suspended below the cables of the roof. Diffused light from the plastic panels, supplemented by artificial light from above the mesh, will play on the ceiling, giving it a continuous shimmering effect. White textured paint will be used on the ceiling and gray on wall areas, both produced by Plextone Corporation of America.

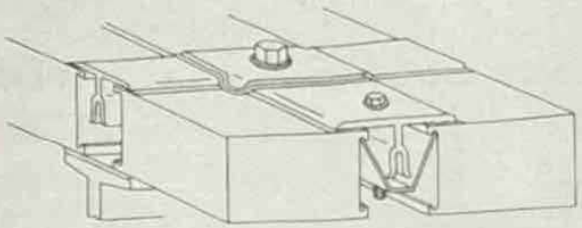
Illumination also will be provided by a circular curtain wall of clear plastic attached to a self-supporting gold colored metal grill.

Adjacent to the pavilion is a theater seating about 1,100 persons. There, Howard S. Cullman, U.S. commissioner general to the fair, will present an extensive program of typically American drama, music, films and other performing arts. Both pavilion and theater are set in a 6½-acre site between the exhibits of the Vatican and the Soviet Union.

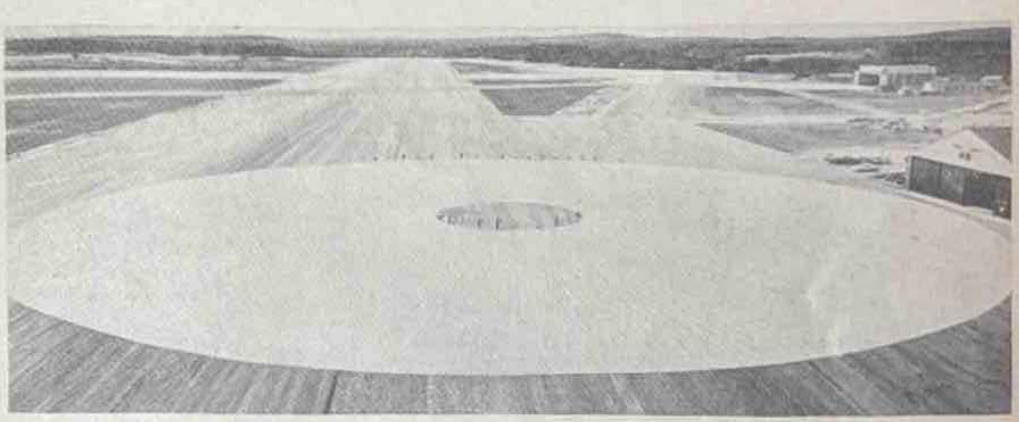
Mid-April opening

The Brussels fair will be the most important international exposition since the New York World's Fair in 1939. Its theme: "New techniques in the service of man for a more human world." Some 50 countries and a number of international organizations will participate in the fair which is scheduled to open mid-April and run until October. Over 35 million visitors are expected to attend.





THIRTY-SIX SECTIONS comprise roof, each consisting of 57 panels which are rectangular or tapered on one side. Structural panels are joined to each other by slender T-shaped aluminum extrusions. Small bolt (right) secures panels to each other and makes mastic seal watertight. Large bolt (center) connects steel clip which in turn is bolted to purlin.



PANELS laid out on Grenier Airfield, Manchester, N. H., give general idea of roof's shape.

General features of Kalwall plastic panel

The Kalwall panel is a self-supporting sandwich of reinforced polyester fiberglass sheets bonded to aluminum I-beam grids, one-seventh the weight of an equivalent metal section. It is completely finished for both interior and exterior wall and roof surfaces, having been tested in institutional, commercial and industrial buildings over the past five years.

The panel reportedly provides nonglare natural illumination, resists weathering and eliminates condensation problems. It is available in four modular sizes: 4x8, 4x10, 4x12 and 4x 20 ft.; in two thicknesses: 1⅞ and 2¾ in.; in six colors: white, crystal, green, blue, rose and yellow.

One man can handle a panel on the job because it weighs only 1.42 to 1.6 lb. per square foot (depending on thickness). The 4x8-ft. panel, for example, weighs 51 lb.

The grid in the panel acts not only as a load-bearing component, but produces solid metal edge banding that accommodates door and window assemblies. The banding can be worked into a flush internal joint system, providing for expansion and contraction and simplifying erection.

The plastic facing has an average tensile strength of 10,000 to 12,000 psi. Bonding used to laminate the face to the aluminum core is a resin type adhesive, designed for external use.

JET AGE HANGAR, shown in architect's model above, will utilize largest welded plate girders ever produced in this country. Each is 365 ft. long and weighs 125 tons. Three-story concrete core will house offices, shops and storerooms.

Largest plate girder beams for San Francisco hangar

HANGAR in which United States Air Lines will handle turn-around maintenance of the fleet of jet transports it will begin using next year at San Francisco's International Airport was designed by architects Skidmore, Owings, & Merrill to eliminate supporting columns in the work area. The 310x363-ft. double-cantilevered structure is now being built by Dinwiddie Construction Co.

A central three-story core of reinforced concrete with dividing masonry walls carries the structural steel frame. Seven 365-ft. beams, each weighing 125 tons, will support the roof.

"These beams," declares W. E. Ottenstein, United's resident engineer on the project, "are the largest plate girder beams ever used anywhere in the construction of a building." They were fabricated and erected by Pacific Iron and Steel Corp. of Los Angeles.

The plate girders cantilever 142 ft. beyond each side of the 81-ft. wide core. They are spaced 51½ ft. o.c. and support a series of inclined trusses which not only support roof purlins but provide lateral bracing for the girders and roof structure as well.

The hangar will have 154,000 sq. ft. of floor space and will be capable of housing four DC-8 jet planes and two DC-7 propeller driven models at the same time, when positioned on each side of and facing toward the central core.

Mechanical heating and ventilation systems and electrical substations will be located in this core. Air, gas and electric power will be provided in each plane position and the core also will house shops, offices, classrooms and storerooms.

Largest pour of concrete in Seattle history: 1,465 cu. yd. in one day

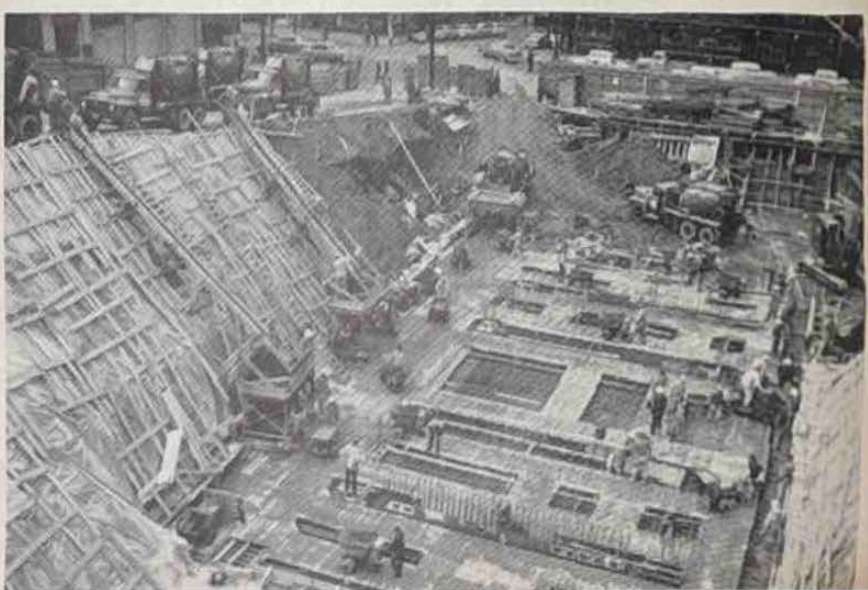
SIDEWALK superintendents in downtown Seattle were treated to a field day last month when they saw a 7-ft. slab placed under the future central core of the 21-story Norton Building in a single shift. Using a fleet of readymix trucks for the hauling chore and 15 gas buggies at the jobsite, contractor Howard S. Wright placed 1,465 cu. yd. of concrete.

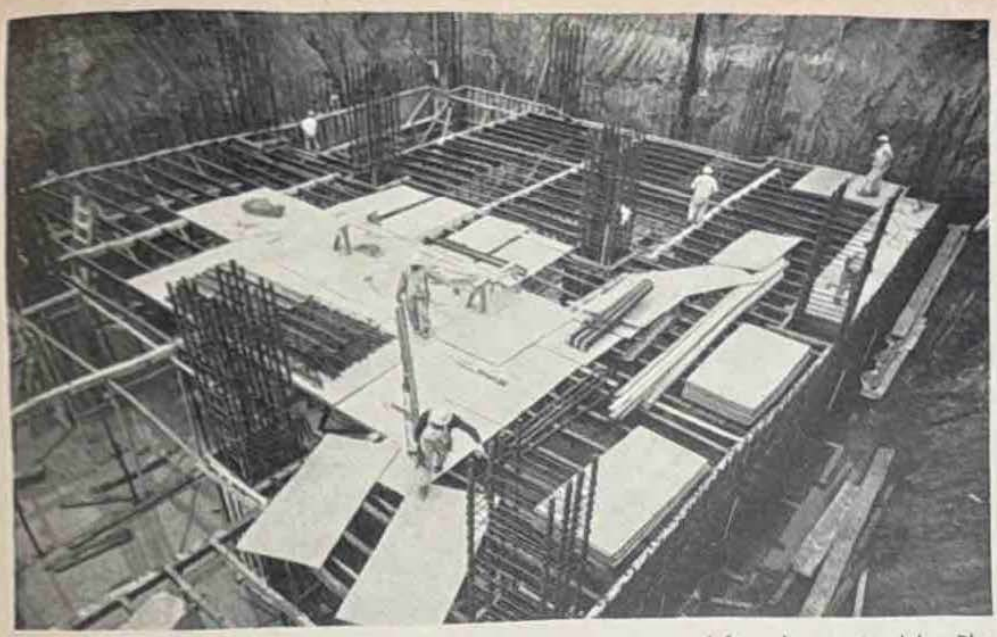
Starting at 8 a.m., Pioneer Sand and Gravel Co. sent a fleet of trucks shuttling back and forth between the jobsite at Second and Columbia streets and Pioneer's two plants at Lake Union and the West Duwamish waterway. The trucks unloaded, four at a time, into hoppers that were placed around two sides of the site. The gas buggies took it from there, establishing patterns over the plank working deck. Mud was then compacted by six vibrators, working in pairs off three gas operated generators.

In the first two hours the contractor placed 225 cu. yd. per hour, with the operation tailing off slightly as it neared the end.

The Norton Building, estimated to cost $12 million, was designed by Bindon & Wright and consultants Skidmore, Owings & Merrill. (For sketch see July 1957 PA&B.)

LARGEST POUR OF CONCRETE ever made in Seattle, nearly 1,500 cu. yd. in one working day, would be equivalent of 2½ football fields at patio depth.





AT KAISER CENTER in Oakland horizontal Spanall beams support reinforced concrete slabs. Plywood sheets already have been laid on top of shoring for about one-third of area. In foreground, two workmen carry section by hand, just before member will be placed in position.

Horizontal shoring cuts costs, speeds progress

A NEW SYSTEM of horizontal shoring to support reinforced concrete slabs is being used increasingly on West Coast jobs to save substantial amounts of construction cost and time. Known as Spanall, the method is basically a system of adjustable telescopic girders that slide inside each other in a manner comparable to a king sized slide rule.

Members come in several different sizes and can be fastened end to end and adjusted to any span desired up to 34 ft. Each member is secured in position with a single bolt and has a built-in camber. A drop-forged protruding lip at each end fits securely on standard bearing surfaces of at least 2 4/5 in. in width. When the concrete slab has set, the supporting members can be removed and used elsewhere on the job. They can be moved easily by hand; no special equipment is required.

Major advantage of using this system is that it eliminates the conventional forest of vertical steel or timber supports. By keeping areas clear, subtrades craftsmen can work with increased speed and efficiency. The shoring is also said to be especially useful where sloping or irregular ground is involved since it eliminates the problem of varying-length supports.

Some of the most notable applications of Spanall have been in California. They include, in addition to the Kaiser Center shown here, the Stanford Medical Center, the Stanford Research Institute and the Carquinez Straits Bridge.

The system is leased by Spanall of the Pacific, Inc., of Oakland through the offices of W. J. Burke & Co. in all major West Coast cities.

Three research conferences on BRI's 1958 program

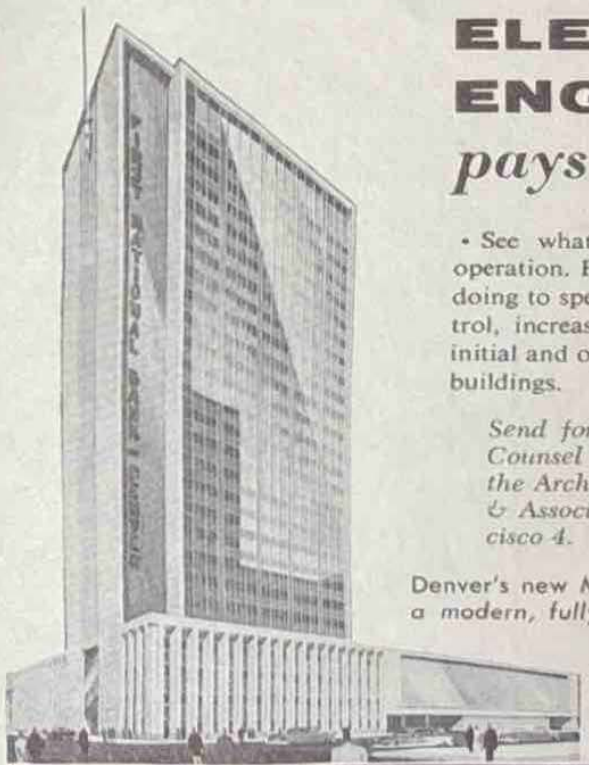
The Building Research Institute, following an unusually active year, held its first public conference in 1958 at the University of Houston March 5-6, with a conference devoted to "Plastics in Building Illumination." Other events definetely scheduled are:

1. BRI Seventh Annual Meeting. Latest reports on technical developments in many fields of building and construction science will be presented at the Shoreham Hotel, Washington, D.C., April 21-23.

2. Paints and Protective Coatings. A public research correlation conference on the newest developments in this subject is being planned for Washington, D.C., next fall.

3. Floor Systems Construction. A conference now being arranged for next fall in Washington, D.C., to correlate the latest technology in all flooring materials and construction methods.

Looking back on 1957, biggest activity in scope and venture to be gotten underway was the establishment of the BRI committee on coordinated basic building research, created by BRI president Charles H. Topping.



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LITERATURE

low cost school construction

"A Citizen's Handbook on Low Cost School Construction" is not a technical manual on techniques nor sales literature on building products, although all of the projects shown incorporate some masonry materials. The designer should find this 28-page booklet of particular interest because of the sensible approach it presents in planning a school building program "aimed at economy rather than cheapness." The material is divided into three major sections—advance planning, site selection and design, the last one being illustrated with a number of school plants across the country.—Allied Masonry Council.

(Item No. 1)

redwood grades

A handy reference on redwood in full color defines the seven major grades and illustrates each in the available dimensions. Recommended uses for each grade also are included.—Georgia Pacific Corp.

(Item No. 2)

aluminum air ducts

First comprehensive work on aluminum air ducts contains 130 pages and more than 350 illustrations in a ring-bound book, with detailed chapters on engineering, drafting, estimating, fabrication and installation. Residential, commercial and industrial applications are considered. One section describes the work carried on by the University of Louisville Institute of Industrial Research in testing various joint constructions and methods of hanging ducts. Controlled heating and cooling cycles were used to determine the cause and cure for noise control and the book furnishes complete data on the recommended methods of controlling joint noises. Reynolds Metals was assisted by such authorities as E. R. Queer of Queer & McLaughlin, State College, Pa.; Dr. Seichi Konzo, professor of mechanical engineering, University of Illinois; and A. B. Algren, professor of mechanical engineering, University of Minnesota, in preparing the work.—Reynolds Metals Co.

(Item No. 3)

hydronic heating

The I-B-R library of installation and calculation guides has been revised and completed with the release of three new publications, providing information on every aspect of hydronic heating as well as cooling. They are: Guide 500—forced circulation hot water heating systems; Piping Guide 700—residential heating systems; Installation Guide 900—chilled water cooling system design.—Institute of Boiler and Radiator Manufacturers.

(Item No. 4)

concrete masonry

"Partners in Fire Safety" is a four-page non-technical leaflet treating the value of concrete masonry for fire safe construction and for low insurance rates. Eight buildings which use this material are shown.—Concrete Products Association of Washington.

(Item No. 5)

light steel framing

Some ideas for light-occupancy structures are found in Bethlehem Pacific's eight-page booklet. Among the projects illustrated and briefly discussed are a library, restaurant, school auditorium, recreation center, plant offices and several homes, all on the West Coast.—Bethlehem Pacific Coast Steel Corp.

(Item No. 6)

CATALOGS

Trane Climate Changers: 56-page catalog provides detailed descriptions and more than 50 photos and engineering drawings of the all-purpose air conditioners for commercial, institutional and industrial comfort and process applications. Gives data on performance and operation, construction, basic application selection and roughing-in dimensions.—The Trane Co.

(Item No. 7)

Rilco Glued Laminated and Solid Wood Products: 24 pages are packed with technical data, connection details and specifications. Illustrations show how laminated wood arches, beams and trusses may be used in church, school, residential, commercial and industrial lighting construction.—Rilco Laminated Products, Inc.

(Item No. 8)

Plaster and Acoustical Systems: eight-page folder treating principal applications of gypsum plaster fireproofing, portland cement for insulating backup of curtain wall construction, acoustical sound conditioning with machine applied vermiculite plastic and a new method of direct-to-steel fireproofing. Contains specifications, fire test and general technical data.—Zonolite Co.

(Item No. 9)

Troffer Lighting: eight-page brochure highlighting Miniature troffers which are just 5 in. wide and 4 in. deep, come in 24-, 36- and 48-in. lengths with a choice of six frame finishes and five light diffusers. Also covered are 8- and 12-in. wide troffers, 6 in. depth.—Alkco Manufacturing Co.

(Item No. 10)

Sika Concrete and Masonry Compounds: eight-page catalog describes concrete admixtures, exposed concrete aggregate, joints and other Sika products; outlines several typical problems; illustrates a number of applications.—Sika Chemical Corp.

(Item No. 11)

The House of Cedar: four-page folder has illustrations and directions for application of shingle roofs and machine grooved shake walls on new homes as well as remodeling. Colors that are available in prestained machine grooved shakes are shown.—Red Cedar Shingle Bureau.

(Item No. 12)

Sunray Cast Iron Baseboard Heating: six-page full color bulletin is designed for use of architects and builders who need literature for their clients, explaining hydronic perimeter heating from the viewpoint of the housewife. Illustrates the decorative advantages of this type of heating, how it makes possible the use of full-length picture windows and can be painted to match any color scheme.—National-U. S. Radiator Corp.

(Item No. 13)

READER SERVICE

Pacific Architect and Builder
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Please send without obligation the data about the products or the literature listed on these pages.

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Corbin Originals for Modern Doors: 16-page, full color catalog introduces new doorknob designs by Russwin and Corbin in woods, enamels and ceramics, in squares, ovals and even a "chalice." Four lines for every type and size of building are featured.—Russell & Erwin. **(Item No. 14)**

Don't Gamble with Fire: eight-page brochure is devoted to Lexsuco roof constructions — Koroseal vapor barrier, non-inflammable adhesive and insulation clip; covers specifications for insulated decks of steel, poured or precast and wood; shows typical installations.—Lexsuco, Inc. **(Item No. 15)**

Lightweight Structurals: eight-page booklet covers design properties on J&L 10- and 12-in. joist sections and data on Junior beams, Junior channels and light beams. May be inserted in the American Institute of Steel Construction Manual. — Jones & Laughlin Steel Corp. **(Item No. 16)**

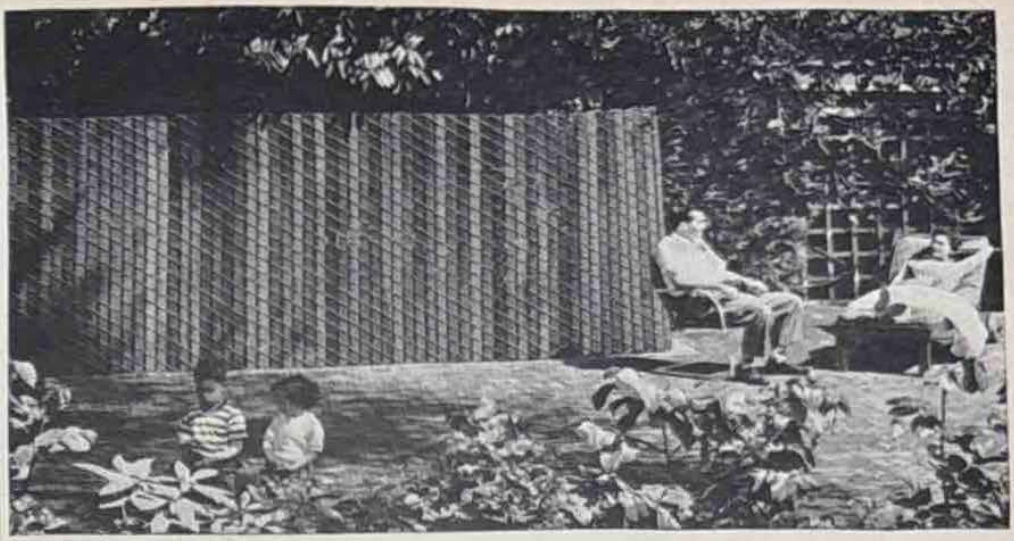
Aetnapak Door-and-Frame Packages: 12-page catalog shows 16 basic door types with the possibility of over 200 type-and-size combinations in swing and sliding hollow metal doors equipped with hardware. Completely flush door type is featured.—Aetna Steel Products Corp. **(Item No. 17)**

Dodge Vinylwood Cork Tile: eight pages with regular and specialty patterns for vinyl cork, SG cork and standard cork tile in full color, along with design data, specifications, installation procedure and maintenance information. Catalog also includes basic data for Dodge cork wall materials—brick, tile and Panelcork.—Dodge Cork Co., Inc. **(Item No. 18)**

Products for Construction: eight-page listing of more than 50 types of adhesives, pressure-sensitive tapes, reflective materials for signs and markings, non-slip surfacing, sealers, insulative and protective coatings, electrical connectors and splice systems. Divided into type of specification and use areas — architectural, electrical, mechanical.—Minnesota Mining and Manfacturing Co. **(Item No. 19)**

Baldwin-Hill Styltone Mineral Tile: four-page brochure describes characteristics and illustrates appearance of the random fissured mineral tile; presents results of laboratory tests, including sound absorption coefficients and flame resistance rating.—Baldwin-Hill Co. **(Item No. 20)**

Architectural Porcelain Panels: 20-page catalog illustrates use of panels



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the fence designed
to complement modern architecture
to provide protection and privacy

The great majority of West Coast homeowners are interested in fencing their properties. This provides an excellent opportunity for you to include fence in the specifications of the homes you design. And an especially good fence for you to recommend is Cyclone Rustake Fence.

Rustake Fence is made by inserting slender strips of California Redwood into special wide mesh Cyclone Chain Link Fence. This fence has all the sturdy strength of steel, yet gives the appearance of redwood picket. Rustake Fence keeps out trespassers, establishes boundary lines and preserves privacy. Its attractive design and warm, glowing color make an effective background for shrubbery and blend well with the contemporary designs of Western architecture.

For more information on Cyclone Rustake Fence, send for our free booklet, "Cyclone Rustake Fencing." Then when your clients ask about suitable fencing for their property, you'll be ready with complete information on Cyclone Rustake Fence.

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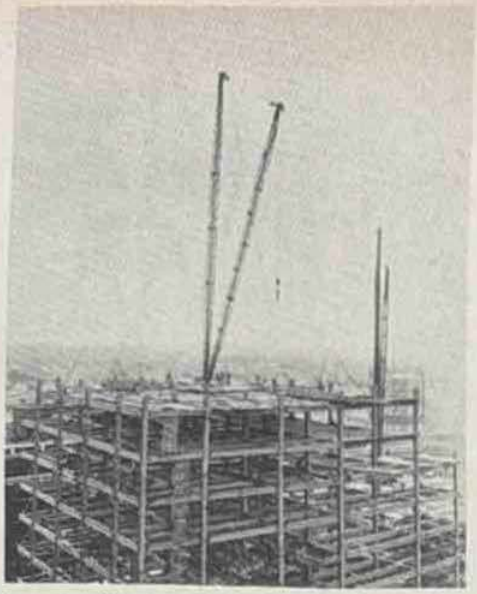
as curtain wall and facing material and shows examples of new and modernization construction for many types of buildings, along with porcelain panel construction details.—Davidson Enamel Products, Inc. **(Item No. 21)**

Thermo-Wall Construction: four-page folder gives advantages, characteristics and erecting details of this method of panel construction employing corrugated asbestos-cement board in combination with a structural insulating unit. A table lists the various coefficients of thermal transmission which vary with the thickness of the insulating unit. —The Philip Carey Mfg. Co. **(Item No. 22)**

Marlite Plastic-Finished Wall and Ceiling Paneling: eight-page folder illustrates and decribes entire line of predecorated hardboard panels, t&g planks and blocks, and Marlite Korelock, a rigid hollow core paneling that is applied directly over framing or furring without backing materials. Shown are 10 companion colors, seven wood grains and six marble patterns. —Marsh Wall Products, Inc. **(Item No. 23)**

How to "Jump" a Guy Derrick: three-page folder for steel erectors seeking the best method of "jumping"—raising the derrick from floor to floor on a building construction project without using other lifting equipment. Three steps in a basic system are illustrated.—American Hoist and Derrick Co. **(Item No. 24)**



Geyser Curtain Walls, Windows: 20-page manual contains detailed drawings, photographs, architects' specifications and recommendations of how to design economically with this grid system. Includes examples of typical installations and explains standard application details that may be applied independently in any combination as to specific planning.—E. K. Geyser Co. **(Item No. 2**

Emergency Lighting: 20 pages devoted to systems for schools, hospitals, public auditoriums, banks, stores, clubs, restaurants and other types of commercial, institutional, civic and public buildings. Contains data on all components, fixtures and exit signs.—The Standard Electric Time Co. **(Item No. 2**

Mono-Seal Protective Coating: 12-page bulletin presents features, properties and characteristics of plastic-type coating, formulated from blends of silicones and epoxies. Gives data on application, drying times, coverage and surface preparation. "Value analysis" section provides guide for economic selection of coating materials.—Mono-Seal Products. **(Item No. 2**

Inductor Air Conditioners: 16-page catalog describes units for perimeter air conditioning of multistoried buildings, covering such supplementary data as installation, adjustments and controls. Section devoted to selection includes a table of basic unit rating, gravity heating capacities, etc.—American Blower. **(Item No. 2**

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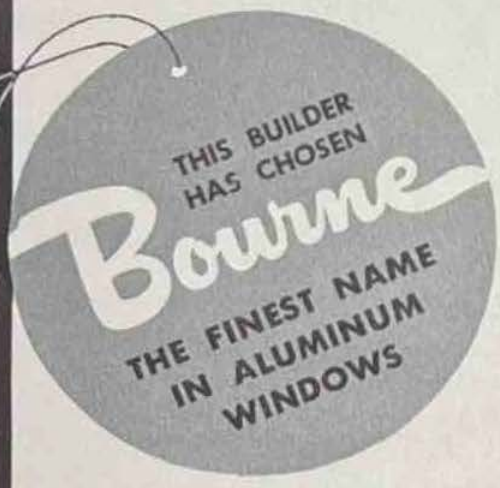

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This new illustrated Bourne catalogue has complete installation details. Write for your free copy and name of nearest Bourne distributor.

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SUPPLIERS

• **Wasco Products, Inc.**, has purchased Daylite Engineering Co. of Van Nuys, Calif., as another step in its long-range expansion program. Daylite, which now is a division, becomes regional headquarters for the distribution and sales of flashing and bath and shower enclosures and all Wasco products. Present staff and facilities of the purchased firm will remain unchanged.

• **Tecler Aluminum Corp.** of Seattle has appointed Elmo G. Guiles, former sales executive for Soule Steel Co., as district sales manager for California; and D. C. Hall, formerly with Atlas Enameling Co. and Coleman Co., as sales engineer. Hall will cover the 11 western states and Canada, not including California.

• **Pomona Tile Manufacturing Co.** has appointed Donald R. Speaker as assistant to the president, transferring to headquarters in Los Angeles from the company plant in Arkansas City, Kan. Speaker, who joined Pomona in 1948, will continue in the position of vice president.

• **Aluminum Company of America** has established a resident sales office in Boise, located in the offices of Pacific Metals Co., 325 Grove St. Robert W. Roylance of Alcoa's Portland, Ore., sales office has been named resident representative.

• **Pioneer Manufacturing Co.** will expand its 125,000-sq. ft. plant in La Puente, Calif. to accommodate new production requirements.

• **The Pacific Lumber Co. of San Francisco** has announced the retirement of vice president and treasurer Kenneth Smith, who joined the firm in 1948. He is going to resume practice as an economic consultant, a field which he pioneered in the forest products industries in 1931. His career embraced 14 years with Long-Bell Lumber Co.

• **Calaveras Cement Co.** has advanced James White to assistant sales manager in the company's main office in San Francisco. He has been replaced by Kent Vickery as sales representative in Stanislaus, Merced and Mariposa counties.

• **Automatic Sprinkler Corporation of America** has named J. J. Durkin, with the company since 1946 in New York City as contracting engineer, to the post of Seattle district manager.

• **Robbins Floor Products, Inc.**, president Poncet Davis Jr. of Tuscumbia, Ala., in addressing the annual dinner of the San Francisco Floor Covering Club last month, urged the dealers to court the favor of professional decorators and architects. "In 1958, I think the dealer will and should concentrate more on the aesthetic side of our industry," Davis said. "The consumer will be sold not just a product, but the concept of high quality hard sur-

STUDENT DESIGNERS at California College of Arts and Crafts in Oakland submitted these handle designs in competition sponsored by Trimview Metal Products of Covina, Calif. Eric Stearne, associate professor of design, supervised contest.

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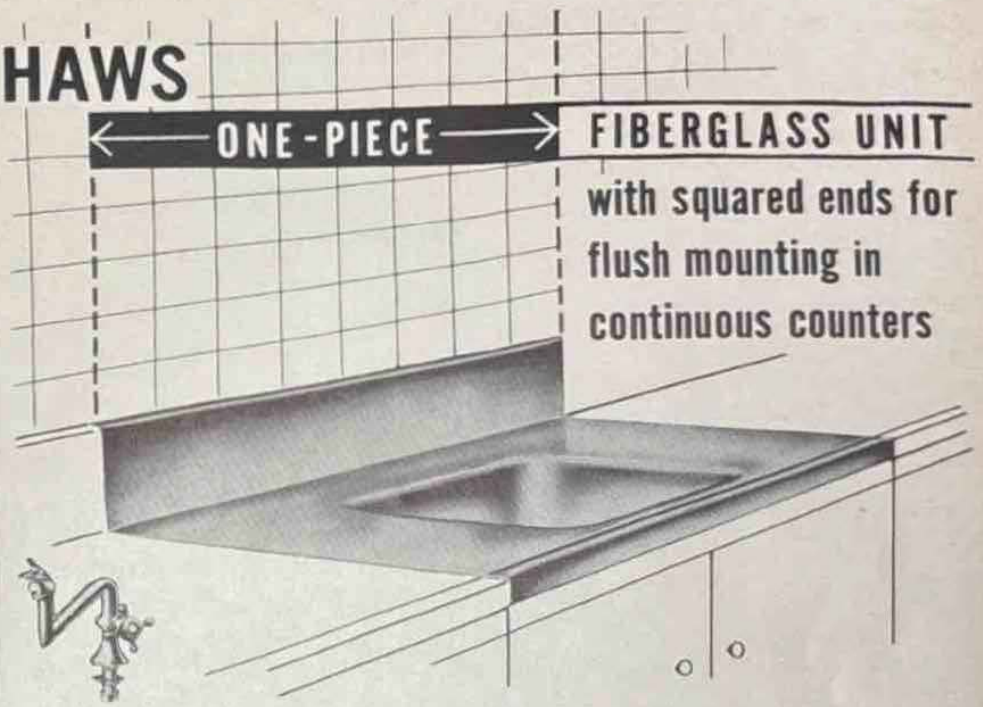
ONE-PIECE FIBERGLASS UNIT

with squared ends for flush mounting in continuous counters



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Fiberglass finish is colorful and durable! You can choose from five decorator colors at no extra cost! Choose your pantry faucet and fountain fixtures, too, from HAWS complete line of facilities for every purpose.

ARCHITECTS, BUILDERS, SCHOOL OFFICIALS ... here's an idea worthy of your attention. Write for illustrated literature, today.

HAWS DRINKING FAUCET COMPANY

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face floor covering as the latest in decorative fashion."

• **Graystone, Inc.,** of Seattle has begun construction of a prestressed concrete manufacturing plant in nearby Redmond. Norman L. Donatt, company engineer for the past six years, will direct the $200,000 installation.

• **Westinghouse Electric Corp.** has opened a new apparatus sales office serving northwest Los Angeles County and all of Ventura, Santa Barbara and Kern counties at 15217 Burbank Blvd., Van Nuys, with Arthur G. Kane Jr. as manager.

• **Pope & Talbot, Inc.,** has appointed Donald W. Pleier as manager of treated lumber sales for its wood preserving division at St. Helens, Ore.

• **General Electric Co.** has named Dean Daniels as western district sales manager for its silicone products with offices in Downey, Calif.

• **McCormick & Baxter Creosoting Co.** has named James A. MacGregor of Portland as vice president, filling the vacancy created by the death of Howard W. Baxter of San Francisco. Other appointments: Doane Hickman as general superintendent and Karl T. Mosher as San Francisco district sales manager.

• **Olympic Stained Products Co.** of Seattle has appointed two representatives: The Harry Malon Sales Co. of Millbrae for northern California and John R. Kruse of Portland for parts of Oregon and Washington.

• **The National Plastic Products Co.** will establish a new warehouse and office facilities in Long Beach, Calif., to serve as headquarters for its western division, covering 11 states, Hawaii and Alaska.

• **Holly-General Co.** of Pasadena has promoted Earl Hefner, formerly sales representative in San Bernardino, Riverside and Imperial counties, to assistant sales manager.

• **Utility Appliance Corp.** and its subsidiary, Mission Appliance Corp., has elected P. L. (Pete) Chabre, who joined the firm in 1936, as vice president, sales and marketing.

• **L.O.F. Glass Fibers Co.** is constructing a manufacturing plant, to cost more than $1 million, in Corona, Calif.,

• **Douglas Fir Plywood Association** has added 11 field promotion representatives, including Ralph McGre formerly with a steel building pr ducts concern in Denver, working o of San Francisco.

• **Seattle Construction Council** h elected the youngest president in i history, 34-year-old Warren C. Brow of Wabco, Inc. Other officers: Pa Jacobsen and Gordon Anderson, vic presidents; Tom Franklin, secretary Fred Frodesen, treasurer.

• **Oregon Building Congress** of Port land has presented its third certifie contractor award to Leonard C. Pa due, mason contractor, and fou guildsmen awards to Lawrence Wink leman, erection superintendent o Timber Structures, Inc.; Arthur L Foster, vice president of Portland Wire & Iron Works and president o Portland Wire & Steel Warehouse Clifford Powell, tile setter; and Fred R. Sanders, brick mason (semiretired).

New officers of the congress are Richard W. Nahstoll, attorney, presi dent; Ernest A. McNabb, First Na tional Bank of Portland, vice presi dent; John R. Murtaugh, AIA, sec retary; and Harold Halvorsen, Shee Metal Workers, treasurer.

"Built-in telephone outlets are a definite selling point"

...says John MacLeod, President of Macco Corporation, Paramount, California developers. "Built-in telephone outlets and underground wiring throughout our latest Newport Beach development have enhanced the value of these homes."

Ask any leading architect or builder —he'll rate Telephone Planning among the basic features of the well-built home. "It's a definite selling point," says Mr. MacLeod, "one that buyers look for." And he's right. Concealed wiring and built-in outlets are features buyers recognize as marks of quality homes. That's why Telephone Planning pays off in increased value, a better-built home and a satisfied buyer.

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It pays to include Telephone Planning in every home you build!

T-SQUARE TALK

new offices, changes

Gabell Gwathmey, architect, has joined the San Francisco architectural firm of Masten & Hurd as a prinicipal. Recently retired as director of the Department of Licenses and Inspections of the District of Columbia, he served for more than 20 years with the Corps of Engineers in the design and construction of military projects and civil works in the U. S. and overseas.

George W. Heideman, architect, has opened an office at 328 Erie Ave., Seattle (EAst 5-9474), where he has been joined by his wife as color coordinator and interior planner. He is a member of the Montlake Terrace Planning Commission.

Katherine Gibbs, AIA, has opened an office at 1235 S.W. Fifth Ave., Portland (CA 2-7088). A graduate of Smith College Graduate School of Architecture (now Harvard), she formerly was a member of the firm of Weihe & Gibbs in Washington, D.C.

Leed Carmean, architect, has opened an office at 1426 Fifth Avenue Building, Seattle (SEneca 2-3931). A graduate of the University of Oregon, he was employed by the Eugene architectural firm of Wilmsen & Endicott and several Seattle firms.

George Fred Ashley, AIA, partner in the architectural firm of Ashley, Keyser & Runge, has closed his consulting office at 465 California St., San Francisco.

The Portland architectural firm of Sundeleaf, Hagestad & Peace is now known as Sundeleaf & Hagestad.

Glen Morgan, architect, has opened an office at 115 Spokane St., Seattle (MAin 4-8466). Before joining Austin Associates in Seattle in 1956, he was employed by several Los Angeles architectural firms.

deaths

Lance E. Gowen, 63, professor of architecture and planning at the University of Washington and a member of the faculty since 1924, died February 10 following an illness since the first of the year. He studied at the University of California where he received a master's degree in 1922 and also did graduate work in France. Professor Gowen, who practiced in Washington and New York states, served as president of the Washington State Chapter, AIA, from 1936-38.

speakers

Two architects were the principal speakers when the Artists' Equity Association held its annual West Coast conference in Seattle March 7-9. John Detlie, AIA, discussed "Art and the World Fair" and Wendell Lovett, AIA, "Art and Architecture."

Victor Gruen, AIA, of Beverly Hills addressed the Kingsley Art Club in Sacramento February 19 on the subject of "The Architect and Urban Cultures."

Kenneth G. Branch, AIA, architect for the Bremerton Public Schools the past 10 years, represented his profession in a study group on "School Buildings—Now and in the Years Ahead" during the annual conference of the Association for Supervision and Curriculm Development, a department of the National Education Association, in Seattle March 2-6.

appointments

Pereira & Luckman, Los Angeles architects-engineers, have elected Leland W. King, AIA, to the post of vice president and director of architecture and Gin D. Wong, AIA, to vice president in charge of planning and de-

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Warehouses in Seattle, Portland, Spokane

sign. Before joining the firm in 1956, King for 14 years was director and supervising architect for the U. S. Department of State's overseas building activities; Wong has been with the firm for eight years, serving as assistant director of design prior to his promotion.

elections

Eugene Wieczorek, construction supervisor for Daniel, Mann, Johnson & Mendenhall, Los Angeles architects-engineers, has been elected president of the Construction Inspectors Association of Southern California. Charles H. Stimson is new vice president and Louis Waters, secretary-treasurer. The group was founded in 1956.

campus notes

Edward C. Malone, senior student at architecture at the University of Southern California, was awarded the Albert C. Martin grant for advanced study in architecture at a ceremony held in the California Club February 14. The honor was based on Malone's work as an undegraduate in planning as his student project a new resort city near Lake Maracaibo in Venezuela as well as his scholastic standing and his professional attitude. Brothers Albert C. Martin and J. Edward Martin of the architectural-engineering firm sponsoring the grant both are graduates of SC.

RECIPIENT of grant for advanced study in architecture is Edward C. Malone (center). Others are J. Edward Martin, civil engineer and partner in Albert C. Martin & Associates, award sponsor; Dean Arthur B. Gallion of College of Architecture at University of Southern California; Edmund McKanna, member of Los Angeles City Planning Commission and guest speaker; and Albert C. Martin Jr., FAIA.

Competitions for students of architecture at the University of Washington and Washington State College have been announced by the Pacific Northwest Brick and Tile Association. Three cash prizes will be awarded at each institution. A six-week problem, involving design of a student center, will be used at the university and of a light industrial building at the state college.

AMERICAN INDIANS will compete in first national art competition, with design in ceramic tile as object, directed by committee of educators and artists under co-chairmanship of Frederick E. Case (left) of UCLA and actor-artist Vincent Price. Cash prizes of $500 and honor of having $4,000 American Indian fellowship in architecture named after winner are being offered through foundation set up by Royal Tile Mfg. Co. of Fort Worth.

●

AIA activities

The Northwest Regional Council has picked Harrison Hot Springs, B.C., for its annual conference, to be held October 9-11. The program and announcement for the 1957 meeting at Gearhart, Ore., has won a gold ribbon for Arvid Orbeck, Portland commercial artist, presented by the Oregon Advertising Club in the direct mail category.

Miss Marjorie Montgomery, former Dallas newspaperwoman, has been named executive secretary of the East Bay Chapter, AIA, with offices in the Hotel Claremont, Berkeley.

The chapter held a panel discussion on public relations at Spenger's Restaurant, Berkeley, March 13, moderated by Andrew P. Anderson, past president and member of the state AIA committee on public relations. Panelists were James Day, general manager of TV station KQED; Miss Nes Young, San Francisco Chronicle; and Kenneth R. MacDonald, PA&B contributing editor.

Two honorary associate memberships were awarded by the Oregon Chapter at its annual banquet February 28 at Portland's Columbia-Edgewater Country Club. They went to Max W. Sullivan, director of the Portland Art Museum since 1956, for his contribtution to art education and to promotion of the relationship of arts and architecture; and to Lloyd T. Keefe, director of the Portland City Planning Commission since 1951, for speeding the progress of city planning and zoning.

John Lyon Reid, FAIA, of San Francisco was guest speaker at the affair, which also honored the seven fellows of the Oregon Chapter. They are William H. Crowell (fellow emeritus), Pietro Belluschi, Herman Brookman, Walter F. Church, Francis Jacobberger, Irving S. Smith and Glenn Stanton.

Our problem of ignorance (Cont'd from p. 14)

room. I also firmly believe that we all have a big job to do outside the schoolroom. We blame youth for lack of interest in science and explain it on the ground that our youth considers scientists to be "eggheads" and therefore social oddities. Yet in the face of this statement, youthful experimentation in rocketry has become so widespread that there is serious concern over the likelihood of personal injuries. This does not sound as though youth lacks interest in science. One priceless and unique characteristic of youth is its perpetual curiosity. We as adults have the power to direct that curiosity into worthy channels. There seems to be evidence that we have failed to do this; instead, we have forfeited these opportunities through preoccupation with amusing and coddling ourselves with material comforts and innumerable needless luxuries.

Perhaps it is we who really need re-education. Certainly we need re-education which will make us want to put our spare dollars into better schools rather than into more personal gadgets. It is for us to set the examples, else youth, as it always has, will reflect our attitudes and lose sight of those things in life which are worthy of its time.

I am not at all sure that the education our children are getting today is any worse than it was 20 years ago. However, I am sure that today's children need far more and better education than has ever been necessary in the past. As architects and contractors, it is our joint responsibility to build schools which, unlike the prison-like, pompous buildings of yesterday, serve to encourage learning. If such buildings can be combined with imaginative teaching that stimulates student curiosity in the physical sciences—and the arts—it is entirely possible that our young people may come to consider the acquisition of knowledge as something which is not only socially desirable, but pleasurable. If this is done, we as a nation will have nothing to fear from anybody, not even ourselves.

Construction News Bulletin

Vol. 64—No. 5 (PA&B) News Section of Pacific Architect and Builder March 15, 1958

Dorothy McCormick ..... News Editor
Sandra Phillips ..... News Staff
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Dorene Davis ..... News Staff
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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★VOR FACILITY CONVERSION— Baker, Ore.

Award to Westchester Electric Co., 6541 W. 90th, Los Angeles, Calif., $24,855, by Civic Aeronautics Administration, Procurement Branch, Box 45007, Airport Station, Los Angeles, Calif., for conversion of an existing VOR facility to a VORTAC facility at Baker, Ore., No. 4-58-965. Eight firms submitted bids. The high bid was $38,190.
DM 3-7. Previous report 2-7

OPERATIONS BUILDING ADDITION— Baker AF Station, Ore.

Bids will be opened on or about April 15 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of 1,467 sq. ft. concrete block automatic addition to existing Manual Addition of the Operations Bldg. at Baker Air Force Station; ENG-45-108-58-83. Plans with above office.

Addition to have reinforced concrete foundations; frame steel joist roof trusses, metal roof decking; 12" concrete block cavity walls; air conditioning and electrical work.
SP 3-7

▲HOUSING UNITS, SITE DEVELOPMENT— Burns, Ore.

Bids received by U.S. Air Force, Geiger AFB, Wash., for construction of 25 housing units in the vicinity of Burns; IFB-45-614-58-11. Bids were also opened March 6 under the same invitation for construction of 27 units in the vicinity of Cottonwood, Idaho, the results of which appear elsewhere in this issue of PCD.

Six bids received; following are basic bids. LOW BIDS: Harney Homes, Inc., Burns, $345,385; Frank Dunham, Box 214, Kennewick, Wash., $361,635; Allied Construction Co., Box 124, Parkwater Station, Spokane, $367,300. HI BID: Thompson & Georgeson, Inc., 1924 S.E. 6th Ave., Portland, Ore., $417,957.
SP 3-7. Previous report 2-21

● OPERATIONS BUILDING ADDITION— Burns AF Station, Ore.

Bid opening time has been established as 2 p.m., P.S.T., April 2, and will be held by Corps of Engineers at 4735 E. Marginal Way, Seattle, for construction of a 1,490 sq. ft. addition (automatic) to the Operations Bldg. (manual) at Burns Air Force Station; ENG-45-108-58-76. Plans with above office. Reinforced concrete foundations; wood frame, roof and floors; 12" concrete block cavity walls; air conditioning.
DM 3-7. Previous report 3-1

● SCHOOL ADDITIONS— Clackamas, Ore.

Bids will be opened 8 p.m., March 27, by Clackamas County School District No. 64C, Clackamas, for construction of five classrooms with a covered play porch, two toilet rooms and teacher's storage room at the elementary school. Plans with Zenger & Schumaker, architects, Barclay Bldg., Oregon City. Plans call for wood frame on concrete slab; built-up roofing; aluminum sash; acoustical tile ceiling; asphalt tile flooring; convectors attached to present heating system.
DC 3-12. Previous report 12-18

MEN'S DORMITORY— Corvallis, Ore.
(Estimated cost $935,150)

Preliminary plans have been approved by Oregon State Board of Higher Education, Earl M. Pallett, secretary, Johnson Hall, Eugene, for a 314-man, five-story and basement dormitory at Oregon State College, Corvallis. Plans by Burns, Bear, McNeil & Schneider, architcets, 2940 S.E. Belmont St., Portland.

L-shaped structure, with 61,182 sq. ft., will house 58 men on first floor and 64 each on the higher levels; lift-slab construction; concrete block exterior walls exposed on interior; brick veneer exterior. Part of Central Hall, a temporary dormitory, will be demolished to make room for the building.
WB 3-1. Previous report 1-8
(College Construction)

■ JUNIOR HIGH SCHOOL ADDITION— Corvallis, Ore.

Planholders announced for construction of a six-classroom reinforced concrete addition to Highland View Junior High School at Corvallis. Bids will be opened 8 p.m., March 18, by Benton County School District No. 509CJ, in the superintendent's office, City Hall, 501 Madison St., Corvallis. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. $25 deposit.

Planholders: John M. Steinmuller, Jr., Box 3302, Eugene; Wood, Johnson & Rose, Box 127, Corvallis; George Irwin, Route 3, Box 391, Canby; Claude Buerge, 113 S. Calapooia, Albany; Robert C. Wilson, 1275 N. 9th, Corvallis; George W. Millett, Jr., 330 Sunset Drive, Eugene; Hampton C. Platt, 3805 Thorndale Road, Salem; John Carrick & Son, Route 3, Box 950, Albany.
WB 3-8. Previous report 2-25

MOTEL— Eugene, Ore.
(Estimated cost $250,000)

Construction will start soon by Travelodge Corp., Earl Gagosian, superintendent of construction, San Diego, Calif., on a two-story, concrete block, 35-unit Travelodge Motel at 540 E. Broadway in Eugene. Plans were prepared by the corporation. Local firms will be subcontracted for furnishing materials and other work.
DM 3-8. Previous report 12-28

● MEN'S DORMITORY NO. 3; MEN'S PHYSICAL EDUCATION BUILDING ADDITION— Eugene, Ore.

Bids will be opened 2 p.m., April 3, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at room 20, General Extension Division Bldg., 1633 S.W. Park Ave., Portland, for construction of Men's Dormitory No. 3, and the Men's Physical Education Bldg. addition, University of Oregon, Eugene. Plans for the dormitory with Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland. $50 deposit. Plans for P.E. addition with Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland. $50 deposit. Certified check or bid bond 10%.

For the domritory, separate bids will be received for general work, mechanical work, electrical work and built-in furniture. For the P.E. addition, separate bids will be received for general and mechanical work.

DORMITORY — Five separate units, approximately 79,587 sq. ft., with capacity of 329 students, connected to Dormitory No. 2 at 15th and Agate streets. Four units will be three-story, and one, four-story; the second half of the kitchen, one-story, will be located in the core of the group of buildings; covered porches will connect the units; lounge and dining room in each unit. Reinforced concrete construction with brick veneer and metal panels; metal frames and sash; porches of thin concrete slab with metal columns and railings; translucent fiberglass roofing on interior terraces; 2" solid plaster walls between study rooms with vinyl fabric coverings; quarry tile kitchen floors; vinyl tile floors in living areas; ceramic glazed block wall and ceramic tile floors in toilets and showers; concrete stairs and basement floors; acoustical tile ceilings; birch trim; rough brick or stone fireplaces; steam convectors in study rooms; radiant hot water heat in ceilings of lounges and dining rooms; heat from central plant. (Approximate cost $1,300,000.)

P.E. ADDITION — One-story structure, 104'x134', containing standard type swim-

ming pool 42'x75', 710 permanent type seats over locker and shower rooms for visiting teams, and 550 folding bleacher type seats. Showers and lockers in existing building will be utilized. Reinforced concrete structure with prestressed concrete beams and pre-cast concrete slab roof; aluminum sash; tile pool, deck and 6' wainscoting; underwater lighting and windows for use in coaching; tile in toilet rooms; asphalt tile flooring and acoustical tile ceilings in lobby area. (Approximate cost $450,000.) WB 3-12. Previous reports 7-9 (swimming pool); 2-21 (men's dormitory).

★SCHOOL ADDITION— Grants Pass, Ore.

Award to Cummings Construction Co., 1050 S.E. Belle Aire Drive, Grants Pass, $34,097, by Josephine County School District No. 7, 610 N.E. A St., Grants Pass, for construction of a one-story, 5,390 sq. ft., lightweight concrete block homemaking and shop addition to North Junior High School, N.E. 8th and Olive St., Grants Pass. Plans by Robert F. Fisher, architect, 220 N.E. Beacon Drive, Grants Pass. SP 3-8. Previous report 2-21

SCHOOL ADDITION— Gresham, Ore.

Bond issue for $50,000 was approved in the February 27 election held by Orient School District No. 6-300Jt., Wesley Johnson, chairman, Route 2, Box 341, Gresham, to finance the addition of three classrooms and cafeteria at the West Orient School and purchase of parking space at the East Orient School, both four mi. east of Gresham on the Mt. Hood Loop Highway. Plans by Joseph H. Rudd, architect, Hughes Bldg., Portland. SP 3-7. Previous report 2-12

●AUTO STORAGE SHED— Hebo, Ore.

Bids will be opened 10 a.m., April 3, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for construction of a nine-vehicle rigid steel frame auto storage shed at Mt. Hebo Air Force Station near Hebo; IFB-58-39. WB 3-11

▲HIGH SCHOOL— Junction City, Ore.

Ten bids submitted to Junction City School District No. 69, Junction City, for construction of a masonry and frame, 36,000 sq. ft., 350-student capacity high school to be located on a 16-acre site west of the old high school at Junction City. Plans by Hamlin & Martin, architects, 159 W. 12th Ave., Eugene. Bids opened March 4. LOW BID: Industrial Building Co., Box 869, Eugene, $369,500. HI BID: Mason & Robinson, 2004 N.E. 137th Ave., Portland, $398,935. SC 3-8. Previous report 2-27

CHURCH CONVERSION— Klamath Falls, Ore.

The Klamath Falls Gospel Preaching Mission, John Pedersen, superintendent, c/o Gene Baille, treasurer, 706 Main St., Klamath Falls, has purchased the two-story stucco and rock First Covenant Church building at 827 Walnut St. in Klamath Falls and will convert the structure into a mission. Work will include painting and redecorating (to be accomplished by volunteer labor); addition of some partitions to provide sleeping accommodations; exterior wall repair; some plastering; plumbing and electrical work. The general building plan will not be altered. ZZ 3-4

★DRUG STORE EXPANSION— Klamath Falls, Ore.

Contract negotiated with Brosterhous Construction Co., 1541 Elm St., Klamath Falls, by Payless Drug Store, Noel Flynn, manager, 808 Main St., Klamath Falls, for expansion of the drug store to include the one-story and no basement, 26'x64', frame and stucco building at 800 Main St., formerly occupied by Oregon Woolen Store. Work includes removal of a partition separating existing store and additional space, extending marquee to the corner, applying frame and stucco exterior to the newly acquired building to harmonize with existing drug store exterior, some painting and plastering and floor covering, and installing new incandescent and fluorescent lighting. Sub-contracts will be let to local firms. ZZ 3-8

●SCHOOL RENOVATION— McMinnville, Ore.

Bids will be opened 8 p.m., March 27, by School District No. 40, Yamhill County, Fred J. Patton, superintendent, High School Bldg., McMinnville, for renovating the fire-damaged multipurpose room at Cook School. Plans with Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. Third Ave., Portland. $15 deposit. Certified check, cashier's check or bid bond 10%.

Work will include construction of new wood floors; new framing; completely new roof including wood beams, decking and roofing replacement; repainting; refinishing; windows; hardware; millwork. WB 3-8

▲ROOFING, HEATING— McMinnville, Ore.

Five bids on roofing, four on boiler and two on storage tank were received March 4 by William A. Zosel, city recorder, City Hall, McMinnville, for mechanical and roofing work. Bids were received for furnishing a cast iron boiler and other materials, a 3,000-gal. underground storage tank, and installing a built-up roof on the city hall annex, requiring 30 squares of built-up roofing. LOW BIDS—ROOFING: D & M Builders Service, 6218 N.E. Columbia Blvd., Portland, $1,249. BOILER: Steritt Plumbing and Heating, McMinnville, $1,690. TANK: Miller & McFee, 520 4th St., McMinnville, $445. SP 3-11. Previous report 2-25

●HOOVER ELEMENTARY SCHOOL— Medford, Ore.

Bids to be opened 7:30 p.m., March 19, by School District 549-C, Administration Bldg., 500 Monroe St., Medford, for construction of a 28,000 sq. ft. five-unit school structure in Medford, each unit to be joined by open, covered walks. Plans with Jack A. Edson, AIA, architect, 44 N. Front, Medford. $25 deposit. Classroom unit has alternate providing for three rooms in addition to the basic three-room structure. Other units will house gymnasium, cafeteria, lockers and boiler, administration.

Plans call for reinforced concrete foundation and slabs; steel pipe and WF columns; glued laminated beams, open web wood trusses and wood decking; frame and block walls; aluminum windows; asphalt tile flooring; acoustical tile ceilings; plaster and fir plywood wall finish; ceramic tile; fluorescent lighting; built-up roofing; sawdust-fired steam heating system. DM 3-7

●HANDRAILS, HEATING REVISIONS— Medford, Ore.

Bids will be opened 3 p.m., P.S.T., March 20, by General Services Administration, Public Buildings Service, 909 1st Ave., Seattle, Wash., for constructing handrails, revising heating system and miscellaneous repairing at the U.S. Post Office and Courthouse in Medford, Ore.; Proj. No. SEA-077. Plans with Seattle office. DM 3-8

▲WILSON ELEMENTARY SCHOOL— Medford, Ore.

Six firms submitted bids which are being held for study, by Jackson County School District No. 549C, Administration Bldg., 500 Monroe St., Medford, or construction of a one-story, 28,000 sq. ft. concrete block, finger plant Wilson Elementary School at Medford. Plans by James L. Payne, architect, 611½ E. Jackson, Medford. LOW: Hampton C. Platt, Box 27, Salem, $372,500 (basic), $24,700 (add alt. for three additional classrooms). 2ND: Harold Salter, Rogue River, $379,173, $26,600. HI: H. Barnhart, Medford, $402,000, $30,000. DC 3-12. Previous report 2-20

●OPERATIONS BUILDING ADDITION— North Bend AFS, Ore.

Bids will be opened 2:15 p.m., P.S.T., April 1, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, Wash., for construction of a 1,520 sq. ft. concrete block, addition (automatic) to the existing addition (manual) of the Operations Bldg. at North Bend AFS, Ore.; ENG-45-108-58-81. Plans with Seattle office. Addition will have reinforced concrete foundations; wood frame; 12" concrete block cavity walls; wood roof and floor. DM 3-8. Previous report 3-1

●■RESORT ADDITION— Oceanlake, Or

Bids will be opened 2 p.m., March 20, by Sidney Tworoger, owner, Surftides, Oceanlake, in the office of Dougan & Heims, architects, 401 Royal Bldg., Portland, for addition of 12 resort rental units in two buildings, expansion of existing boiler room, and heating facilities and electrical service for future construction at the Surftides; Contract No. 1. Work is to be completed and ready for occupancy by May 25. Select list of bidders. Contract No. 2, consisting of restaurant with cocktail lounge, swimming pool, beauty shop, gift shop and conservatory, will go out for bid as soon as plans are completed. The same group of contractors will be invited to bid.

Planholders: J. M. Steinmuller, 907 W. 3rd, Eugene; George Moore & Associates, 923 S.W. 17th Ave., Portland; Ben Beimer Builders Service, Oceanlake; George and Anfelt Hansen, 4115 S.E. Ogden St., Portland; Mills Construction Co., 502 Kingwood Drive, Salem; C. W. & Willis A. Hill, P.O. Box 82, Salem; Fred W. Carter Co., Inc., 6034 N.E. 60th Ave., Portland.

Buildings in this contract are a two-story, four-unit structure and a one-story, eight-unit structure. Concrete piers; concrete floors; resawn cedar board exterior; rough-sawn beams and wood ceilings; composition built-up roofs; plaster wall finish; large glass area; fireplaces in six units. Each unit will contain a large living-sleeping room, bathroom and dressing room; breezeway will connect with existing building. Contractor will install following items furnished by owner: Bathroom accessories; fireplace screens; wallpaper; lighting fixtures and lamps. The owner will also furnish carpets, draperies, fireplace accessories, coaxial cable and fittings. WB 3-12. Previous report 1-2

★HIGH SCHOOL ADDITION— Philomath, Ore

Complete list of bids received by School District No. 17C, Benton County, Henry C. Peter, clerk, High School Bldg., Philomath, for construction of 18,000 sq. ft. wood frame addition to Philomath High School. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. AWARD: Lester Burkett, 1615 Hall Lane, Corvallis, $192,442. OTHER BIDS: H. G. Carl Construction Co., Box 387, Salem, $193,425; Robert C. Wilson, 1275 N. 9th, Corvallis, $197,3[illegible]; Riverman & Sons, 1230 N.E. 63rd Ave., Portland, $199,295; Wood, Johnson & Rose, Box 127, Corvallis, $200,421; Todd Building Co., Box 37, Roseburg, $206,690; Carrick & Son, 3531 S. Pacific Blvd., Albany, $207,238; John M. Steinmuller, Jr., Box 3302, Eugene, $207,794; C. W. & Willis A. Hill, Box 682, Salem, $209,944; Thomas E. Gates & Son, 3640 S. Santiam, Lebanon, $219,425. Bids opened March 6. WB 3-11. Previous report 3-4

INDUSTRIAL AREA— Portland, Ore

(Estimated development cost $7,000,000)

The Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., P.O. Box 4099, Portland, has been deeded 3[illegible] acres of land in Mocks Bottom from Multnomah County to form the nucleus of a 4[illegible] acre industrial district. The newly-acquired land is being combined with property already owned by the port in Mocks Bottom and on adjacent Swan Island in North Portland. Boundaries of the area are the Union Pacific Railroad's Albina holding yard, the Willamette River and a high bluff.

Preliminary design is by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Land will be leased, rather than sold, for light industry, warehousing and distribution. Landscaping and other practices designed to promote good appearance will be encouraged. Although no immediate need for dock space was foreseen, waterfront areas will be reserved for future ship and barge terminals.

The west end of Swan Island proper and part of the basin side of the island will be reserved for ship repair and dry dock operations. The river side of N. Channel Ave. will be held for ship repair and dry dock operations, and rail trackage will be extended to that area. The greater part of the basin side of Swan Island may be used for berthing shallow-draft vessels, including storage of barges, tugs, floating cranes and similar equipment.

Service centers will be established on Swan Island and Mock's Bottom for motor vehicle service stations, restaurants, branch banking and other public facilities. An extensive road and railroad grade separation at the N. Going St. entrance to the area, and a low level vehicular arterial along the bluff side of Mock's Bottom and extending to the northwest along the easterly bank of the Willamette River to the St. John's area are planned.

Cost estimates include $5,018,500 for realignment of Mocks Bottom, including the fill, streets and railroads; $1,375,000 for Going St. interchange; $611,000 for Swan Island development.

The Port has announced that the first 40-acre section of land on Swan Island is now available for development, and construction will be started this spring on a railroad spur line into the area, Tract A. Shipyard buildings on the island will be removed to make way for new buildings.

A major item in the development will be filling of the former county land with approximately 12,000,000 c.y. of hydraulic fill. This work will be coordinated with normal dredging of the Portland harbor by the port's 30" pipeline dredge, "Clackamas," and may take up to 25 years. WB 3-1

L.D.S. CHURCH— Portland, Ore.

Working drawings are nearly complete by Stewart & Richardson, architects, 219 S.W. Stark St., Portland, for construction of the West Hills Ward, Portland Stake, Latter Day Saints Church, at S.W. McMillan St. between S.W. 99th and 102nd avenues, Portland. Plans are scheduled to be turned over to Bishop Ronald K. Tall on March 21, and it is expected that construction will be under a superintendent.

One-story structure with partial basement; chapel will seat 300; recreation hall will have facilities for feeding 600 persons; kitchen facilities; educational wing; alternate for relief society room. Basically frame structure; glued laminated beams and columns with 4" wood deck over chapel and recreation hall; trussed rafters and wood sheathing over educational wing; rough sawn wood siding and some brick veneer on exterior; built-up roof; aluminum operating sash; large wood window in chapel; stainless steel work in kitchen; asphalt tile flooring, except maple in recreation hall and carpet in choir area; interior partitions of wood studs, gypsum lath and plaster; gypsum lath and plaster ceilings; some acoustically treated ceilings; gas-fired hot water heating system; ventilating units for chapel and recreation hall; incandescent lighting; dimmers on some lights in the chapel and recreation hall. WB 3-5

● RIVERDALE SCHOOL ADDITION— Portland, Ore.

Bids will be opened 8 p.m., March 25, by School District No. 51J, Multnomah County, Leslie W. Buell, clerk, Riverdale Grade School, 11733 S.W. Breyman Ave., Portland, for construction of a reinforced concrete addition to the school. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

Addition of five classrooms with individual toilet areas and an open corridor. Concrete slab floor; brick veneer exterior on three sides; corridor will have redwood finish; built-up roofing; frame partitions with lath and plaster; acoustical tile ceilings; asphalt tile floors; hollow metal exterior doors; wood interior doors; fluorescent and incandescent lighting; mechanical ventilating system with finned pipe heating; some asphaltic playground paving. WB 3-8

★ SCHOOL EXPANSION— Portland, Ore.

Complete list of bids received by Sylvan School District No. 42 Jt, Multnomah County, 8111 S.W. West Slope Drive, Portland, for construction of frame and brick veneer addition to West Sylvan School, at above address. Plans by Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland. Award was made on alternate one, which was 10% below the architect's estimate. AWARD Allen C. Lawson, 2520 S.W. Hamilton Court (Basic) $91,380, (Alternate 1) $120,940; OTHER BIDS: Wilson & Dean, 1016 N.E. 61st Ave., $93,738, $124,100; Anfelt B. Hansen, 4115 S.E. Ogden St., $92,444, $125,038; Gene H. Settergren, 1625 S.E. Woodward St., $94,462, $126,662; St. Pierre & Vermilyea, 10505 N.E. Beech St., $95,865, $127,390; Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton, $95,326, $127,492; Weston Construction Co., 7415 N.E. Glisan St., $96,300, $128,300. Of Portland. Bids opened March 5.
WB 3-8. Previous report 3-7

● BUILDING REPAIR— Portland, Ore.

Bids will be opened 10 a.m., March 21, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for repair of supply building T-405 of Detachment 1, 2846th ARFC, at the airport; IFB-58-38. WB 3-11

★ STEEL LOCKERS— Salem, Ore.

Award to Worley & Co., Pico, Calif., $19,057, by School District No. 24 CJ, Marion County, 1309 Ferry St., Salem, for furnishing steel lockers for Judson and Waldo junior high schools. Bids opened February 25.
DM 3-8. Previous report 2-13

LABOR AND INDUSTRIES BUILDING— Salem, Ore.

(Estimated cost $3,000,000)

Skidmore, Owings & Merrill, achitects, 2040 S.W. Jefferson St., Portland, have been retained by Oregon State Board of Control, Capitol Bldg., Salem, to prepare plans and specifications for the proposed Labor and Industries Building in the block north of the state library, now occupied by Salem's First Presbyterian Church, as part of the Capitol Mall development in Salem. Bids probably will be opened in March of 1959.
SC 3-8. Previous report 1-4

●■ CANNERY OFFICE— Stayton, Ore.

Bids to be opened 8 p.m., March 17, by Stayton Canning Co. at the plant office in Stayton for construction of a two-story, 7,000 sq. ft., reinforced concrete office building. Plans by Louis Schmerber, architect.

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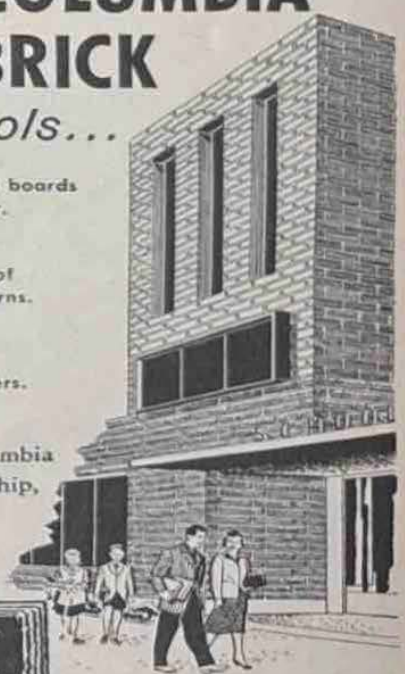

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3085 N. River Road, Salem, call for concrete slab lower story, steel joist with concrete on second floor, brick veneer, aluminum sash, built-up roofing.

Planholders: E. E. Batterman, 147 Commercial; Mills Construction Co., Route 2, Box 294; C. A. Lantz, 1053 S. Commercial; Smith & Nelson, 1198 S. 20th; Robert D. Morrow, 3385 S. Commercial; all of Salem. A. N. Minden Co., 11320 N.E. Marx, Portland. DC 3-12

●RESIDENCE— Wamic, Ore.

Bids will be opened 10 a.m., P.S.T., March 26, by Oregon State Game Commission, P. W. Schneider, director, 1634 S.W. Alder, Portland, for construction of a residence at the White River Game Management area near Wamic, Ore. Plans with above office. Certified check or bid bond 10%. DM 3-7

BOWLING ALLEY— The Dalles, Ore.
(Estimated cost $225,000)

Bids will be called soon by Fred G. Mauser of Mauser Lumber Co., 623 E. 3rd, The Dalles, for construction of a 12-lane bowling establishment in The Dalles. Facilities will include automatic pinspotters, nursery, food bar and locker rooms. SC 3-1

WASHINGTON

★SHOPPING CENTER— Bellevue, Wash.

Contract is being awarded to Jentoft & Forbes, 927 W. 46th, Seattle, $213,815, by Highway 10 Development Co., owner, c/o Turner & Hargreaves, architects, Exchange Bldg., Seattle, for construction of a three-building shopping center on a five-acre tract at 156th S.E. and Lake Hills, near Bellevue. Seven bids were received for the March 7 opening. SP 3-11. Previous report 3-6

▲SWIMMING POOL— Bellevue, Wash.

Bids which were opened March 11 by Olympic Swim School, Bellevue, for construction of an outdoor swim instruction pool in Bellevue, south of the Puget Power Bldg., are being held for further study and will be released soon. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, call for 40'x60'x4½' cement concrete pool; 800 sq. ft. bathhouse and office and 200 sq. ft. equipment building with concrete slab-on-grade, beam, decking roof; concrete block walls, partitions; gas fired unit heater in office; gas fired boiler to heat pool; 284' cedar fence; 20-car gravel surfacing parking area. PD 3-12

●■HOSPITAL ELECTRICAL WORK— Burien, Wash.

Bids will be opened 3 p.m., March 18, by Al Schmid of Schmid Construction Co., general contractor and one of the owners, at his shop at Burien Hospital, 16200 8th Ave. S.W., Seattle, for electrical work involved in construction of the above hospital which is well underway. Plans were prepared by Alfred F. Simonson, architect, 11728 Aurora Ave., Seattle. Work does not include installation of x-ray system which is being handled by General Electric Co.

Planholders: Beckstrom Electric, 14056 Bothell Way; Donald W. Close, 2921 13th S.W.; City Electric and Fixture Co., 433 8th N. All of Seattle. SP 3-8

▲FIRE HALL— Centerville, Wash.

Four bids received by Hilmer Erickson, secretary, Klickitat County Fire Protection Circuit No. 5, Centerville Grange Hall, Centerville, for construction of a one-story masonry block fire hall. Bids opened March 5. TWO LOW BIDS: L. R. Martin, 809 W. 18th, The Dalles, Ore., $15,787; Gillenwaters Hardware, Goldendale, $16,050. HI BID: Raymond J. Britton, Box 667, Richland, $18,200. SP 3-11. Previous report 2-21

CHAPEL REMODELING— Colfax, Wash.

Plans will be issued soon to a select list of contractors by John P. O'Neill, architect, Columbia Bldg., Spokane, for interior remodeling of the St. Ignatius Hospital chapel at Colfax. Work will include plastering, floor finishing, wood work, painting and cabinet work. SC 3-8

●ELEMENTARY SCHOOL ADDITION— Everett, Wash.
(Estimated cost $200,000)

Bids will be opened 8 p.m., March 31, by Everett School District No. 2, Auditorium Bldg., Everett, for construction of a one-story and no basement, wood frame, seven-classroom addition to the Silver Lake Elementary School and alterations to the existing building in Everett. Plans with Harold W. Hall, architect, 402 Commerce Bldg., Everett. $40 deposit. For building description see PCD previous report. HH 3-7. Previous report 3-1

●GYMNASIUM SEATS— Everett, Wash.

Bids will be opened 8 p.m., March 17, by Everett School District No. 2, Auditorium Bldg., Everett, for furnishing folding gymnasium seats for the physical education building at the new South Junior High School. Plans with the school district. HH 3-8

●RESTROOM— Everett, Wash.

Bids will be opened 8 p.m., March 25, by Port of Everett Commissioners, Pier 2, Everett, for construction of a restroom at the 14th St. moorage area in Everett. Plans with above office. HH 3-8

ELEVATOR MODIFICATIONS— Fairchild AFB Defense Area, Wash.

Bids will be opened on or about April 9 by Corps of Engineers, 4735 E. Marginal Way, Seattle, for miscellaneous modifications to the elevators and underground structures housing the elevators at four separate sites in the Fairchild Air Force Base Defense Area; ENG-45-108-58-85. Specifications with above office. Work in general consists of installation of Government-furnished modification kits and of minor realignment and adjustment of structural features. The work is generally related to mechanical and structural features only. SP 3-7

●SCHOOL ADDITION—Federal Way, Wash.
(Estimated cost $80,000)

Bids will be opened 8 p.m., March 20, by Federal Way School District No. 210, King County, Kenneth C. Jones, superintendent, in administration office of the district, Federal Way, for construction of a two-story, no basement; 3,472 (each floor); poured concrete; frame and brick veneer addition to Federal Way High School in Federal Way. Plans with Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma. Certified check, cashier's check or bid bond 5%.

Concrete footings and foundation; 56'x62'; some poured concrete walls, frame and brick veneer, metal window walls; concrete (first floor) and frame on steel joists (second floor) floors; main steel frame supporting joists and trusses; wood roof; frame partitions; steel sash, alternate for aluminum; brick exterior, plaster interior wall finish; plaster with gypsum lath partitions; plywood (second floor), asphalt tile (first floor) flooring; drywall acoustical ceilings; standard wood cabinets, some steel; folding doors, glass panels; batt or blanket insulation; fluorescent lighting; extension to existing steam heating system. DM 3-7. Previous report 3-1

BANK— Ferndale, Wash.

Preliminary plans are being prepared by Green-Sibold & Associates, architects, White-Henry-Stuart Bldg., Seattle, for a one-story and basement, 5,000 sq. ft. (approximate) bank to be constructed on Main St. between 2nd and 3rd streets in Ferndale, for First National Bank of Ferndale, M. F. Hastings, president, Ferndale. Off-street parking will be provided. It is hoped construction contracts can be let early this summer. ET 3-1

SCHOOL EXPANSION— Ferndale, Wash.

Bond issue which will appear on the March 11 ballot is in the amount of $846,212, and is to finance proposed school construction and expansion of facilities for Ferndale School District No. 502, Ferndale. Plans for the work are by Richard H. Stradling, architect, Herald Bldg., Bellingham.

The following items are being considered for the district: 1—Construction of new elementary school. 2—Purchase of additional land and construction of additional rooms at the North Bellingham school. 3—Remodeling of the old junior-senior high school building. 4—Improvements and additions to the Ferndale High School, with additions including a new cafeteria-central kitchen and homemaking department building to be constructed across the street from the high school. 5—Construction of additional rooms at the Custer School and remodeling the building. ET 3-7. Previous report 12-[illegible]

▲HOUSING UNITS, SITE DEVELOPMENT— Geiger AFB, Wash.

Bids received by U.S. Air Force, Procurement Office, Geiger AFB, for construction of 25 housing units in the vicinity of Burns, Ore., and 27 units in the vicinity of Cottonwood; IFB 45-614-58-64. Bids opened March 6. Plans were prepared by Leo A. Daly, Architects and Engineers, Securities Bldg., Seattle.

Six bids for Burns and five for Cottonwood received on basic items as follows. BURNS—TWO LOW BIDS: Harney Homes, Inc., Burns, $346,385; Frank Dunham, Box 24, Kennewick, $361,635. HI BID: Thompson & Georgeson, Inc., 1924 S.E. 6th Ave., Portland, $417,957. COTTONWOOD—TWO LOW BIDS: Allied Construction Co., Box 124, Parkwater Station, Spokane, $382,550; Crescent Construction Co., Box 4173, Station B, Spokane, $384,433. HI BID: Hurley Construction Co., 403 S. Roberts St., St. Paul, Minn., $423,[illegible]. SP 3-7. Previous report 3-[illegible]

★BUS GARAGE, SHOP— Issaquah, Wash.

Award to Strand Inc., 1801 N. 34th, Seattle, $45,325 (basic plus alt.) by Issaquah School District No. 411, Box 746, Issaquah, for construction of a 10,300 sq. ft. bus garage and shop building. Plans by Young, Richardson & Carleton, architects, Central Bldg., Seattle. Eighteen firms submitted bids at the March 5 opening, ranging from the above low to a high of $58,452. DC 3-11. Previous report 2-[illegible]

★ELEMENTARY SCHOOL ADDITION— Kent, Wash.

Award to Korsmo Bros., 5044 Lake Grove Ave. S.W., Tacoma, $85,489, by Kent School District No. 415, John Boyle, business manager, 508 N. Central, Kent, for construction of an 11,000 sq. ft., one-story, four-classroom addition to Panther Lake Elementary School, Benson Road and S.E. 208th St., Kent. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. SP 3-11. Previous report 2-[illegible]

▲ELEMENTARY SCHOOL— Lakewood, Wash.

Eight general, four mechanical and six electrical bids received by Lakewood School District No. 306, Lakewood, for construction of an eight-classroom elementary school at Lakewood. Plans by Harry E. Botesch, architect, and F. Edward Brown, associate, Commerce Bldg., Everett. Bids opened March [illegible]. GENERAL—TWO LOW BIDS: Puget Sound Builders, c/o Frank Waltner, Mayfair Apartments, $159,301; Venne Beauchamp, Box [illegible], $171,286. HI BID: Frank Damson, Route [illegible], $212,315. MECHANICAL—TWO LOW: Glant Plumbing and Heating, 2732 Hoyt, $56,[illegible]; Sager Construction and Repair Co., [illegible] Rucker, $56,888. HI BID: Haskell Plumbing and Heating, 3014 Wetmore, $63,667. ELECTRICAL—TWO LOW: Ewing Electric, [illegible] Main St., Edmonds, $21,749; Marysville Electric, 1517 3rd, Marysville, $21,862. HI BID: McInnis Electric, 221 State, Marysville, $24,000. Of Everett unless noted. HH 3-8. Preoivus report 2-[illegible]

●FLOORING, COUNTERTOP— La Push, Wash.

Bids will be opened 2 p.m., March 24, by 13th Coast Guard District, room 922, [illegible] 2nd Ave., Seattle, for replacing floor covering and base in kitchen, office, dayroom and second floor bath, and replacing existing conutertop and backsplash of the fixed counter in the kitchen in the crews quarters at the Quillayute River Lifeboat Station, La Push; Inv. No. FS-1720. Specifications with above office. SP 3-[illegible]

●DENTAL CLINIC— Larson AFB, Wash.

Bid opening established as 2 p.m., April 16, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of a 5,000 sq. ft. masonry block dental clinic at Larson AFB; ENG-45-164-58-38. Specifications with above office. Building to include concrete slab; steel roof decking; oil fired warm air heating; water, sewer, exterior and interior electrical; sidewalks and curb; asphaltic paving for drive and parking area; remove and relocate fence. SP 3-12. Previous report 3-5

●HIGH SCHOOL— Mossyrock, Wash.
(Estimated cost $485,000)

Bid opening extended from March 12 to 8 p.m., March 19, on construction of a one-story, no basement, 400'x200', poured concrete and frame high school building at Mossyrock. Bids to be opened by Mossyrock School District No. 206, in the superintendent's office, High School, in Mossyrock. Plans with William Arild Johnson & Associates, architects, 3506 Broadway, Everett. HH 3-7. Previous report 3-1

▲DUPLEX— Neah Bay, Wash.

Bids received by 13th Coast Guard District, 618 2nd Ave., Seattle, for construction of frame duplex dwelling at U.S. Coast Guard Cape Flattery Light Station, Tatoosh Island, Neah Bay, Wash.; FS-1709. Bids opened March 10.

Twelve bids received. TWO LOW BIDS: Hugh S. Ferguson Co., 1927 1st Ave. S., Seattle, $58,000 (item 1), $57,400 (item 2); Nelson Construction Co., 3504 N. Monroe, Tacoma, $63,600, $64,200. HI BID: Commercial Builders, 114 Shore Drive, Bremerton, $81,970, $81,370. SP 3-11. Previous report 2-12

●PARTITIONS, ACOUSTICAL TILE, PAINTING— Olympia, Wash.

Bids will be opened 3 p.m., P.S.T., March 28, by Clyde J. Fenn, Jr., supervising engineer, Department of General Administration, 218 General Administration Bldg., Olympia, for three separate projects: 1—movable partitions for the interior completion of the General Administration Bldg.; 2—acoustical ceiling tile in the north half of the third and fourth floors of the same building; 3—painting the interior of the north half of the third and fourth floors of the same building. Plans with above office. Separate bids on each project. DM 3-7

OFFICE BUILDING— Olympia, Wash.

Preliminary studies have been approved by Sunset Life Insurance Co., 522 S. Franklin St., Olympia, for a new home office in the Carlyon District between Olympia and Tumwater. Preliminary plans have been started by Wohleb & Wohleb & Associates, architects, 715 S. Washington St., Olympia. The one-story building will be a class A structure. DM 3-8

▲DOOR REPLACEMENT—Paine AFB, Wash.

Five bids were received March 5 by Air Force Procurement Office, Paine AFB, for replacement of doors in Bldg. 517 at the base; Inv. No. 45-602-58-43. Metropolitan Construction Co., 1008 Broadway, Everett, $3,741 was low. HH 3-7. Previous report 2-15

●BUILDING MODIFICATION— Paine AFB, Wash.

Bids will be opened 2:30 p.m., March 25, by U.S. Air Force, Procurement Office, Paine AFB, for modification of Bldg. 100 including repair of walls, ceilings and lighting at the base; Inv. No. 45-602-58-70. Plans with above office. HH 3-7

★FOUNDATION REPLACEMENT— Paine AFB, Wash.

Award to Lake Construction Co., 1801 35th, Bellingham, $3,544, by U.S. Air Force, Paine AFB, for replacement of foundations for Bldg. No. 521 at the base; Inv. No. 45-602-58-38. HH 3-8. Previous report 3-1

●THEATER REMODELING— Paine AFB, Wash.

Bids will be opened 2 p.m., March 25, by U.S. Air Force, Procurement Office, Paine AFB, for replacing interior of the base theater at Paine AFB; Inv. No. 45-602-58-68. Plans with above office. Work consists of removing and replacing of wallboard and ceiling with gypsum board, removing and replacing exit door hardware with panic hardware, installing new fire lights, installing new floor tile with rubber base, and painting walls and ceilings. HH 3-7

● SERVICE CLUB PAINTING— Paine AFB, Wash.

Bids will be opened 2 p.m., P.S.T., March 26 by procurement office, Paine AFB, for installing a new door and painting the interior of the Service Club on the base. Inv. No. 45-602-58-71. Plans with above office. Bid bond 20%. HH 3-11

▲PLANT SCIENCES BUILDING (Excavation)— Pullman, Wash.

Nine bids were submitted to Board of Regents, Washington State College, 303 Administration Bldg., Pullman, for excavation of 150,000 c.y. dirt at the site of the proposed plant sciences building to be constructed across Stadium Way east of Rogers Field in Pullman. Plans by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle. LOW BID: Erwen Construction Co., 831 S. 4th, Pasco, $43,808 ($1.90 per c.y. rock excavation; 30c per c.y. earth excavation). OTHER LOW BIDS: Carl Hohner & Sons, E. 5801 3rd, Spokane, $73,380 ($1.65, 43c); N. A. Degerstrom, E. 15 32nd St., Spokane, $84,800 ($5, 41c). HI BID: Sather & Sons, Yardley, $119,900 ($3, 60c). Bids opened March 5.
MH 3-7. Previous report 2-19

CHEMISTRY BUILDING ADDITION— Pullman, Wash.

Harmon, Pray & Detrich, architects, Lloyd Bldg., Seattle, have been retained by Board of Regents, 303 Administration Bldg., Washington State College, Pullman, to prepare plans for a contemplated major addition to the chemistry building, Fulmer Hall, on the campus at Pullman. State financing has yet been provided for the project. MH 3-8

●VETERINARY CLINIC ADDITION— Pullman, Wash.

Bid opening extended from April 24 to 2 p.m., May 16, by Board of Regents, 303 Administration Bldg., Washington State College, Pullman, for construction of a two-story reinforced concrete veterinary clinic addition to extend to the north, south and east from and be attached to McCoy Hall, one of the two veterinary buildings presently on the campus at Pullman. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. Associate architects are Decker, Christensen & Kitchin, 1411 Fourth Avenue Bldg., Seattle.
MH 3-11. Previous report 2-27

●PLANT SCIENCES BUILDING (Phase 1)— Pullman, Wash.
(Estimated cost $1,800,000 Phase 1)

Bid opening extended from April 1 to 2 p.m., April 22, by Board of Regents, 303 Administration Bldg., Washington State College, Pullman, for the initial phase of construction, including structural frame, enclosing walls and roofs, and roughed in mechanical and electrical systems, on the two-wing, four-story and basement, 175,000 sq. ft., reinforced concrete plant sciences building at WSC in Pullman. Plans with Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle. $50 deposit.
MH 3-11. Previous report 3-1

★FIRE STATION— Quincy, Wash.

Award to H. D. Emerson, Quincy, $27,217, by City Council, City Hall, Quincy, for construction of a one-story, no basement, 8,000 sq. ft., concrete block fire station at Quincy. Bids opened March 4. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. 2ND LOW BID: Columbia Construction Co., Moses Lake, $28,768.
IG 3-7. Previous report 2-18

●HEADQUARTERS BUILDING— Raymond, Wash.

Bids will be opened 3 p.m., P.S.T., April 4, by Clyde J. Fenn, Jr., supervising engineer, Department of General Administration, 218 General Administration Bldg., Olympia, for construction of district headquarters at Raymond for the Department of Natural Resources. Plans with above office. $10 deposit. DM 3-7

●EXHAUST VENTILATING SYSTEM— Redmond, Wash.

Bids will be opened 9:30 a.m., March 17, by King County Commissioners, 402 County City Bldg., Seattle, for modification of the existing exhaust ventilating system at the Redmond shops. Plans with Larry Layton of county purchasing department, 606 County City Bldg., Seattle. Certified check or bid bond 5%. DM 3-11

SHOPPING CENTER— Renton, Wash.
(Estimated cost $8,000,000)

Construction is scheduled to start June 1 on a shopping center in an area west of the business district in Renton, including a two-story, 120,000 sq. ft., reinforced concrete department store for Sears, Roebuck & Co., Stanly W. Donough, director, 2465 Utah, Seattle, and market, store and shop space for other businesses. Plans for the Sears store are being prepared by Young, Richardson & Carleton, architects, Central Bldg., Seattle. This is the first phase of a three-phase program in which the City of Renton is planning renewal of a 67-block area in and near the Renton business district. Third step of the program will be construction of additional buildings west of the Sears development. Robert L. Edwards of Wallin-Edwards, Inc., 217 Well, Renton, realty firm, is developer of the property. SP 3-7

▲ELEMENTARY SCHOOL— Seattle, Wash.

Bids received by Seattle School District No. 1, 815 4th Ave. N., Seattle, for 12,000 sq. ft. addition and alterations to Pinehurst Elementary School at E. 117th St. and 12th Ave. N.E., in Seattle. Plans by Mallis & DeHart, architects, Lyon Bldg., Seattle. Bids opened March 5.

Seven bids each on the general, mechanical and electrical contracts were received. GENERAL—TWO LOW BIDS: Riley Pleas, Inc., 522 19th N., $121,714; Ness Construction Co., 1125 W. 53rd, $129,129. HI BID: Sanford Wright, Box 809, Everett, $143,844. MECHANICAL—TWO LOW BIDS: Boyker Plumbing and Heating, 2627 Eastlake, $52,820 (plus $4,100 for alt. 1, and $5,260 for basic bid No. 2, force main); C. F. Massart Plumbing and Heating, 4401 Wallingford, $53,090 (plus $3,785 and $5,036). HI BID: Lucken Plumbing and Heating, Inc., 922 Leary Way, $56,172. ELEC-

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TRICAL—TWO LOW BIDS: Lindberg Electric Co., 4600 Leary Way, $12,809; Watts Electric, Inc., 15411 Military Road, $13,315. HI BID: Hooper Electric, 215 Marion, $17,850. All of Seattle unless noted.
SP 3-7. Previous report 3-1

REMODEL OFFICE BUILDING— Seattle, Wash.
(Estimated cost $50,000)
Bids will be called soon by International Business Machines Corp., for remodeling 14,000 sq. ft. of office building at 1933 5th Ave., Seattle. Plans by Burr Richards, architect, Orpheum Bldg., Seattle.
Plans call for aluminum stairway and handrails with walnut inserts; suspended luminous ceiling on first floor; plaster and glass partitions; asphalt tile flooring; some aluminum windows; fluorescent light; air conditioning; electric heating; air conditioning.
PD 3-8

■ **ENGINEERING BUILDING—** Seattle, Wash.
Mechanical and electrical and additional general planholders announced for construction of the new mechanical engineering building northeast of the electrical engineering building on campus at the University of Washington. Bids will be opened 2 p.m., March 18, by Board of Regents, Administration Bldg., U of W, Seattle. Plans with Carlson, Eley & Greystad, architects, 432 Eastlake, Seattle.
Planholders — ADDITIONAL GENERAL: H. Halvorson, Inc., 20054 Pacific Highway S.; Jentoft & Forbes, 927 W. 46th; Riley Pleas, Inc., 522 19th N.; Brazier Construction Co., 309 Pontius Ave.; Cawdrey & Vemo, 3601 Fremont Ave.; Ness Construction Co., 1125 W. 53rd. MECHANICAL: W. E. Beggs, Inc.,234 9th N.; University Plumbing and Heating, 3941 University Way; W. A. Botting Plumbing and Heating Co., 5625 University Way; Boyker Plumbing and Heating, Inc., 2627 Eastlake; West Coast Heating and Plumbing Co., Inc., 4125 9th N.W.; Lucken Plumbing and Heating, Inc., 922 Leary Way; L. G. Massart Plumbing and Heating Co., 4501 9th N.W.; Navarre Plumbing and Heating Co., Inc., 3839 Stone Way. ELECTRICAL: Van S. McKenny Co., 104 Wall; Hooper Electric Co., Inc., 215 Marion; Holert Electric, Inc., 2300 W. Spokane; City Electric and Fixture Co., 433 8th N.; Agutter Electric Co., 5500 14th N.W.; Northwest Electric Co., 420 Yale Ave. N.; Tullar Power Construction Co., 3214 W. McGraw, Industrial Electric Co., 1828 Yale. All of Seattle. SP 3-8. Previous report 3-5

● **ROOM ALTERATIONS—** Seattle, Wash.
Bids will be opened 3 p.m., P.S.T., March 20, by General Services Administration, Public Buildings Service, room 126, 909 1st Ave., Seattle, for alterations to the CAA conference room at 2400 14th Ave. S., Seattle. Plans with GSA office.
DM 3-8

★ **ELEMENTARY SCHOOL ALTERATIONS, ADDITION—** Seattle, Wash.
General contract awarded to B. F. Turnbull, Inc., 4351 Leary Way, Seattle, $218,339, by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of a two-story addition and for alterations to Whitworth Grade School, 5215 46th Ave. S., Seattle. Plans by Carlson, Eley & Greystad, architects, 432 Eastlake, Seattle. Mechanical and electrical contracts were awarded earlier to Ashwell-Twist, 967 Thomas, Seattle, $68,325, and Northwest Electric Co., 420 Yale Ave. N., Seattle, $21,310, respectively.
SP 3-8. Previous report 2-20

● **GAS CONVERSION—** Seattle, Wash.
Bids will be opened 2 p.m., April 1, by Housing Authority of Seattle, Charles W. Ross, executive director, 825 Yesler Way, Seattle, for conversion to natural gas in boiler No. 3 at Yesler Terrace; Proj. WASH. 1-1. Specifications with procurement office, above address.
DC 3-11

▲ **POST OFFICE (Demolition)—** Seattle, Wash.
Six bids were received March 6 for demolition of the existing post office building at 3rd and Union streets and the Douglas Bldg. on the southwest corner of 4th Ave. and Union St. in Seattle, and have been taken under advisement by University Properties, Inc., White-Henry-Stuart Bldg., Seattle. Bids were received in the office of Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle, who are completing plans for an office building development on the Post Office and Douglas Building sites.
SP 3-8. Previous report 3-5

■ **BUILDING ADDITION—** Seattle, Wash.
Additional planholders announced for construction of a 61'x47' two-story addition to the Cyclotron Bldg. on campus at the University of Washington. Bids will be opened 2 p.m., March 18, in the business manager's office, room 209, Administration Bldg., U of W, Seattle. Plans with John Graham & Co., architects, 1426 Fifth Avenue Bldg., Seattle.
Additional planholders: W. G. Clark, 408 Aurora; B. F. Turnbull, 4351 Leary Way; Gwinn Construction Co., 8539 Interlake Ave.; Norge Construction Co., 5008 Admiral Way; Willar Construction Co., 9709 Greenwood. All of Seattle. SP 11-9. Previous report 3-6

■ **MEDICAL CLINIC—** Seattle, Wash.
Additional planholders announced for construction of a one-story and basement, 10,000 sq. ft. medical clinic at Minor and James streets in Seattle, for Minor & James Medical Bldg., Inc., owners, Seattle. Bids will be opened 4 p.m., March 19, in the office of Bassetti & Morse, architects, 1602 Tower Bldg., Seattle.
Additional planholders: John P. Hopkins, Box 247, Mercer Island; Schmid Construction Co., 2604 W. Lynn, Seattle; Gwinn Construction Co., 8539 Interlake Ave., Seattle; Nelsen Building and Contracting Co., 1243 Rainier Ave., Seattle. SP 3-12. Previous report 3-6

▲ **CEDAR PARK ELEMENTARY SCHOOL—** Seattle, Wash.
Bids received by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of the 38,000 sq. ft. reinforced concrete, 12-classroom Cedar Park Elementary School in northeast Seattle. Plans by Paul Thiry, architect, 800 Columbia St., Seattle.
Seven general, seven mechanical and six electrical bids were received at the March 11 bid opening. The following are basic bids: GENERAL—LOW BIDS: John H. Sellen Construction Co., 228 9th N., $345,700; Wick Construction Co., 720 N. 35th, $357,000. HI BID: Lloyd W. Johnson, and Morrison Knudsen Co., Inc., 1266 Mercer St., $388,200 (joint venture). MECHANICAL — LOW BIDS: Hart Plumbing and Heating, Inc., 11553 27th N.E., $89,468; W. A. Botting, 5625 University Way, $90,292. HI BID: Rautman Plumbing and Heating Co., 115 Jackson, $106,557. ELECTRICAL—LOW BIDS: Mars Electric Co., 800 23rd S., $33,232; Watts Electric and Appliance Co., 1722 Market St., $34,912. HI BID: Hooper Electric Co., Inc., 215 Marion, $40,551. All of Seattle. LB 3-12. Previous report 2-21

ELEVATOR MODIFICATIONS— Seattle Defense Area, Wash.
Bids will be opened on or about April 9 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for miscellaneous modifications to the elevators and underground structures housing the elevators at twelve separate sites in the Seattle Defense Area; ENG-45-108-58-86. Specifications with above office. Work in general consists of installation of Government-furnished modification kits and of minor realignment and adjustment of structural features. Work is generally related to mechanical and structural features only.
SP 3-7

● **FIRE ESCAPES—** Sedro-Woolley, Wash.
Bids will be opened 2 p.m., March 17, by L. B. Foster, supervisor of state purchasing, Box 1164, Olympia, for construction of four, 36" tubular fire escapes at Northern State Hospital, Sedro-Woolley. Plans with Olympia office.
DC 3-11

●■ **HOSPITAL REMODELING—** Spokane, Wash.
(Estimated cost $500,000)
Bids will be opened 3 p.m., March 21, by St. Luke's Hospital of Spokane, Lawrence G. Trousdale, administrator, N. 830 Summit Blvd., Spokane, for alterations to the hospital, including remodeling of the obstetrical department on the fourth floor of the east wing, complete remodeling of the recovery department on the second floor of the west wing, remodeling of basement of west wing to provide for a new kitchen, alterations to laundry building to take care of new machinery, and remodeling of emergency room and admitttance offices in the center section. Plans have been issued to a select list of bidders by Rigg & Vantyne, architects, Peyton Bldg., Spokane. One general contract. Alternate figures are being accepted for remodeling work in physical therapy division, for paving and curbing in parking areas and for a new elevator in east wing.
Planholders: Gus J. Bouten Construction Co., N. 627 Napa; Henry George & Sons, Hutton Bldg.; Sceva Construction Co., N. 2928 Madelia; Johnson-Busboom-Rauh, N. 8th Cedar; H. Halvorson, Inc., Box 6, Yardley. Of Spokane unless noted.
SC 3-7. Previous report 11-2

RETIREMENT HOME— Spokane, Wash.
(Estimated cost $1,000,000)
It is hoped bids can be called about April 15 by Presbyterian Ministries, Inc., Spokane, for construction of a retirement home on a six-acre tract on Hawthorne Road just east of Division within three blocks of the Whitworth College campus, in Spokane. Plans are being prepared by Eddy, Carlson & James, architects, N. 1205 Washington, Spokane.
SP 3-8. Previous report 2-6

● **ELEVATOR CONVERSION—** Spokane, Wash.
Bids will be opened 3 p.m., March 27, by General Services Administration, room 12[illegible] Federal Office Bldg., 909 1st Ave., Seattle, for conversion of two elevators at the U.S. Post Office, Courthouse and Custom House at Riverside Ave. and Lincoln St. in Spokane; Proj. No. SEA-1028. Specifications with above office.
SP 3-[illegible]

▲ **MULTIPURPOSE BUILDING—** Spokane, Wash.
Bids were opened by Most Rev. Bernard J. Topel, Catholic bishop of Spokane, Chancery Bldg., Spokane, for construction of a two-story multipurpose building which will be the first unit of the St. Thomas More parish school and church to be located east of Wall and Carolina Way, a mile north of Francis, in Spokane. Plans by Henry J. Swoboda, architect, N. 6605 Division, Spokane. Six general contract bids—LOW: AAA Construction Co., 739 N. Helena, $106,[illegible] 2ND: William F. Spilker & Sons, Route 3, $112,633. HI: Hazen & Clark, W. 108 Boone, $124,688. Ten mechanical bids—LOW: Roberts-Inman Plumbing and Heating, Inc., N. 1418 Division, $25,263. 2ND: Peck & Gale Plumbing and Heating Co., S. 211 Washington, $25,660. Nine electrical bids—LOW: Power City Electric Co., N. 920 Howard, $9,410. 2ND: Spokane Electric Co., E. 6[illegible] Trent, $9,747. All of Spokane. Bids opened March 10.
DC 3-12. Previous report 3-4

JUNIOR HIGH SCHOOL— Tacoma, Wash.
(Estimated cost $1,050,000)
Plans will be complete about May 1 by Lea, Pearson & Richards, architects, [illegible] Stadium Way, Tacoma, for the one-story and no basement, 80,000 sq. ft., poured concrete, block and brick Iva Alice Mann Junior High School to be constructed in Tacoma. Bids will be taken by Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma. $25 deposit on plans when available. Completion time fall of 1959.
Concrete footings and foundation; some poured concrete, some concrete block and some brick walls; frame floors in shop only, remainder concrete; wood frame and steel supporting structures; flat glued laminated roof, plywood decking; some masonry partitions, predominantly frame; aluminum sash, steel alternate; brick and porcelain paneled exterior, plaster interior wall finish; some wood exterior, birch interior trim, some exposed masonry partitions, predominantly plaster with gypsum lath; asphalt tile flooring; some ceramic tile; some plaster and some acoustical ceilings; folding doors, corrugated plastic panels, blackboards, fire doors; rigid insulation roof, blanket or batt elsewhere; fluorescent luminous ceiling lighting; hot water heating system, heavy oil fuel; ventilating system in multipurpose room.
SP 3-5. Previous report 1-15

■ **JUNIOR HIGH SCHOOL— Tacoma, Wash.**

Planholders announced for construction of a 32-classroom, 80,000 sq. ft., five-building junior high school on Knapp Road, ¼ mi. east of Portland Ave., in Tacoma. Bids will be opened 8 p.m., March 20, by Franklin Pierce School District No. 402, 11002 Portland Ave., Tacoma. Plans with Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma.

Planholders: Nelson Construction Co., 2944 S. L St.; G. Kirkebo & Son, 1410 Mountain View Drive; Northern Construction Co., 132 Silkum Waterway; Quality Builders, 5220 S. Orchard; Industrial Engineers and Contractors, 711 Middle Waterway; Ostruske-Murphy, Inc., 1515 Center St.; Bonnell Construction Co., 160½ Commerce; Jardeen Construction Co., 1240 S. Sprague; Warter Construction Co., 7829 Pacific Ave.; Concrete Construction Co., 2015 Center St.; Anderson Construction Co., 115 S. 9th St.; E. H. Moore, 693 Mission St., San Francisco, Calif.; Standard Construction Co., 315 E. 25th; A. G. Homann, Box 37, Lacey; C. E. Skinner, Box 706, Orting; Ollom Construction Co., 2315 W. Spokane, Seattle. Of Tacoma unless noted.

SP 3-8. Previous report 2-28

● **FIRST INDEPENDENT BANK— Vancouver, Wash.**

(Estimated cost $60,000)

Concrete blocks will be used on construction of a branch bank at Mill Plain Road near 66th in McLoughlin Heights, for First Independent Bank, E. W. Firstenburg, president, Vancouver. Bids will be opened 4 p.m., March 21, in the office of McCoy & Bradbury, architects, 7007 Highway 99-N, Vancouver. Plans with architects.

Concrete block construction; reinforced concrete block columns; block interior partitions; glued laminated beams; insulated three-ply roof with gravel topping; aluminum sash; stone wall on one side; stone veneer on vault; 28' high steel frame sign; asphalt tile flooring with rubber base; acoustical tile ceilings over gypsum board; wall insulation in core areas; double concrete slab floor with electric cable radiant heat; concrete slab mezzanine floor. Fixtures in separate contract.

WB 3-11. Previous report 3-8

CLUB HOUSE— Walla Walla, Wash.

(Estimated cost $200,000)

Bids will be called early in the summer by Fraternal Order of Eagles, according to Kenneth Moss, chairman of the building committee, 7 E. Alder, Walla Walla, on construction of a building to house club facilities, lodge rooms and a 16-lane bowling alley. The structure will be built on either one of two sites owned by the lodge, one on S. 2nd, north of the old brewery building and the other in the vicinity of N. 2nd Ave. The new lodge building will be 105'x120'. If the bowling alley is included on the main floor, another 95' will be added. It is planned to use reinforced concrete in the construction with brick facing and a large amount of glass. DC 3-1

WIRING ALTERATIONS, HOT WATER TANK— Westport, Wash.

Bids will be rejected by 13th Coast Guard District, 618 2nd Ave., Seattle, for alterations to electrical wiring and equipment at the Boathouse and Wharf and replacement of a 120-gal. hot water storage tank in the Main Building at Grays Harbor Lifeboat Station, Westport; Inv. No. FS-1712.

SP 3-8. Previous report 3-1

▲ **ELEMENTARY SCHOOL— Woodinville, Wash.**

Fifteen bids on the general, six on the mechanical, and seven on the electrical contract were received by Woodinville School District No. 213, Woodinville, for construction of the two-building, one-story, 10,000 sq. ft. Cottage Lake Elementary School in Woodinville about ½ mi. from Cottage Lake on Woodinville-Duval Road. Bids opened March 10. Plans by Steinhart, Theriault & Anderson, architects, 1264 Eastlake, Seattle. GENERAL—LOW BIDS: Vaux Construction Co., 127 State St., Kirkland, $106,935; Edmonds Construction Co., 106 Main St., Edmonds, $108,235. HI BID: Glacier Construction Co., 5536 Coniston Road, $125,000. MECHANICAL—LOW BIDS: Navarre Plumbing and Heating Co., Inc., 3839 Stone Way, $41,767; C. M. Dolman Plumbing Co., 11751 15th N.E., $43,112. HI BID: Lincoln Mechanical Contractors, 714 Adams, $50,800. ELECTRICAL—LOW BIDS: Mars Electric Co., 800 23rd S., $8,985; Lindberg Electric Co., 4600 Leary Way, $9,309. HI BID: Hooper Electric Co., 215 Marion St., $10,350. Of Seattle except as noted.

PD 3-12. Previous report 3-1

IDAHO

★ **BLEACHERS— Boise, Idaho**

Award to Ariel Davis Supply, 110 Social Hall Ave., Salt Lake City, Utah, $23,587, by Boise Independent School District, 1207 Fort St., Boise, for furnishing bleachers for the gymnasium at the new Borah Senior High School in Boise. Bids opened February 10.

SP 3-8. Previous report 1-30

LIBRARY— Burley, Idaho

(Estimated cost $50,000 to $60,000)

Preliminary plans are underway for a library at Burley. A site at 13th St. and Miller Ave. has been donated by the city. Plans are in charge of Mrs. Herman E. King, president of the library board. DC 3-7

■ **GRANDSTAND— Coeur d'Alene, Idaho**

Planholders announced for construction of a grandstand at the county fairgrounds in Coeur d'Alene. Bids will be opened 10 a.m., March 17, by Kootenai County Commissioners, Courthouse, Coeur d'Alene. Plans with Willis Ed James and Ernest M. Hicks, architects, 112 Sherman Ave., Coeur d'Alene.

Planholders: Walter M. Varnum, 103 Summit Ave., Coeur d'Alene; R. C. Worst Construction Co., 625 Best Ave., Coeur d'Alene; Johnson Construction Co., Box 1052, Spokane, Wash.; Purvis Construction Co., 5019 E. Sprague, Yardley, Wash.

SP 3-8. Previous report 2-18

● **GYMNASIUM ALTERATIONS— Coeur l'Alene, Idaho**

Bid opening extended from February 27 to 2 p.m., P.S.T., March 25 for alterations to the existing gymnasium at Kootenai High School in Coeur d'Alene. Bids to be opened by School District No. 274-B, Kootenai County, in the office of Culler, Gale, Martell & Norrie, architects, W. 242 Riverside, Spokane, Wash.

DC 3-8. Previous report 2-20

▲ **HOUSING UNITS, SITE DEVELOPMENT— Cottonwood, Idaho**

Bids received by U.S. Air Force, Geiger AFB, Wash., for construction of 27 housing units in the vicinity of Cottonwood, Idaho; IFB 45-614-58-64. Bids also were opened March 6 under the same invitation for construction of 25 units in the vicinity of Burns, Ore., the results of which appear elsewhere in this issue of PCD.

Five bids received; following are basic bids. LOW BIDS: Allied Construction Co., Box 124, Parkwater Station, Spokane, $382,550; Crescent Construction Co., Box 4173, Station B, Spokane, $384,433; Griewing & Westermeier, Grangeville, Idaho, $391,500. HI BID: Hurley Construction Co., 403 S. Roberts St., St. Paul, Minn., $423,559.

SP 3-7. Previous report 2-21

● **OPERATIONS BUILDING ADDITION— Cottonwood AF Station, Idaho**

Bid opening established as 2 p.m., April 3, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 1,467 sq. ft. concrete block automatic addition to existing Manual Addition of the Operations Bldg. at Cottonwood Air Force Station; ENG-45-108-58-82. Specifications with above office.

Addition will have reinforced concrete foundations; frame steel joist roof trusses, metal roof decking; 12" concrete block cavity walls; air conditioning and electrical work.

SP 3-11. Previous report 3-5

RECTORY— Grangeville, Idaho

Preliminary plans underway by Andrew D. Bowles, architect, 104 S. 11th St., Boise, for a rectory to be constructed in Grangeville, for Roman Catholic Church, Boise Diocese, Bishop James J. Byrne, Boise.

GH 3-8

● **ARMORY— Grangeville, Idaho**

Bids will be opened 2 p.m., April 3, by Arthur Warren, commissioner, Department of Public Works, 432 Capitol Bldg., Boise, for construction of a National Guard armory at Grangeville. Plans with Major James S. Brooks, Adjutant General's Office, Box 1098, Boise. Plans were prepared by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston.

SP 3-8. Previous report 9-14

● **SCHOOL CONSTRUCTION— Grangeville, Idaho**

Bids will be opened 2 p.m., April 1, by Joint Class A School District No. 241, Dorsey Riggs, superintendent, Idaho County Courthouse, Grangeville, for construction of a 12-classroom junior-senior high school building at Clearwater Valley, Kooskia-Stites area, a six-classroom junior-senior high school at Riggins, and an 18-classroom junior-senior high school in the southwest portion of Grangeville. Plans with Whitehouse, Price & DeNeff, architects, and E. J. Deeble, associate, Hutton Bldg., Spokane, Wash.

SC 3-8. Previous report 11-8

PARISH HALL— Hailey, Idaho

Fund raising campaign is underway for a new parish hall to be constructed in Hailey, for Roman Catholic Church, Boise Diocese, Bishop James J. Byrne, Boise. Plans by Andrew D. Bowles, architect, 104 S. 11th St., Boise.

GH 3-8

■ **EAST, WEST SIDE SCHOOLS— Idaho Falls, Idaho**

Revised planholders list has been issued on construction of the one-story, 23,000 sq. ft., L-shaped, 14-classroom East Side Elementary School and the identically planned West Side Elementary School in Idaho Falls. Bids will be opened 8 p.m., March 18, by Class A School District No. 91, Bonneville County, in the Little Theater of the Senior High School, Idaho Falls. Plans by Norman

Other forms available on a purchase basis

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City_____ State_____

J. Hamill & Associates, AIA, architects, 216 Earl Bldg., Idaho Falls.

Planholders—GENERAL: Arrington Construction Co., West Side, Idaho Falls; C. H. Elle Construction Co., Box 1190, Pocatello; G. W. Mallory, Aberdeen; Wadsworth Construction Co., 255 Broadway, Idaho Falls; Brennen Construction Co., Box 507, Pocatello; W. R. Cahoon Construction Co., Box 449, Pocatello; Aiman Construction Co., Box 931, Idaho Falls; Teller Construction Co., Box 435, Idaho Falls.

DM 3-8. Previous report 3-6

● ■ BUILDINGS, UTILITIES— Idaho Falls, Idaho

(Estimated cost $1,000,000)

Bids will be opened 3 p.m., April 19, by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of buildings including combined control, reactor and equipment building and guardhouse, utilities and facilities for the GCRE Facility, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-945. Plans with above office. For pre-bid visit to site, be at Resident Engineer's Office, Bldg. CF-659, Central Facilities Area, by not later than 1 p.m. on March 26 or March 28.

Planholders: L. B. McKinney Co., 2544 N.E. Union Ave., Portland, Ore.; Petroleum Combustion and Engineering Co., 11941 Wilshire Blvd., Los Angeles, Calif.; Kaighin & Hughes, Inc., Box 952, Toledo, Ohio; George Chicha Co., E. 2917 Sharp Ave., Spokane, Wash.; Coastal Construction Co., 15521 14th Ave. N.W., Seattle; Sumner Sollitt Co., 307 N. Michigan Ave., Chicago, Ill.; Arthur M. Andersen Corp., 2137 Marianna Ave., Los Angeles; Farnsworth & Chambers Co., Inc., Box 74, Houston, Texas; Graver Tank and Mfg. Co., 1045 W. Huntington Drive, Arcadia, Calif.; M. J. Brock & Sons, Inc., 2894 Rowena Ave., Los Angeles; The Edward Gray Corp., 12233 Ave. O, Chicago; Wallace Mechanical Corp., Box 485, Newport Beach, Calif.

Teller Construction Co., 845 N. Graham, Portland, and Box 435, Idaho Falls; James Stewart Co., 411 N. Central Ave., Phoenix, Ariz.; Shaw & Estes, Contractors, Box 2399, Dallas, Texas; Western-Knapp Engineering Co., 650 5th St., San Francisco, Calif.; G. W. Galloway Co., 220 S. 1st Ave., Arcadia; Davis & Butler Construction Co., 422 Dooly Bldg., Salt Lake City, Utah; Andersen-Westfall Co., 3427 N.E. Halsey, Portland; Paul Hardeman, Inc., 11558 Tennessee Ave., Los Angeles; Fegles Construction Co., 711 Wesley Temple Bldg., Minneapolis, Minn.; General American Transportation Corp., Box 97, Orem, Utah; Arrington Construction Co., Inc., Box 881, Idaho Falls; Watkins Construction Co., Box 1786, Boise.

SP 3-12. Previous report 2-19

SCHOOL ADDITION— Lewiston, Idaho

Preliminary plans have been approved by Lewiston School District, 9th Ave. and 11th, Lewiston, for a one-story, 4,526 sq. ft., four-classroom addition to Warner Elementary School in Lewiston Orchards. Final plans underway by William I. Parr, architect, 3540 12th, Lewiston. The addition will be at the east end of the school facing 7th St. at the corner of Warner Ave.

Poured and reinforced concrete foundation; concrete slab floors; pumice block east wall; extruded aluminum window units glazed with crystal sheet and glass; roof membrane of asphaltic felts in 15-year quality, insulated with 3" rock wool; hollow core steel exterior doors glazed with polished wire plate; acoustical tileboard ceilings; asphalt tile flooring; birch or fir casework; sink-fountain combinations in each room.

DR 3-5. Previous report 1-24

ELEMENTARY SCHOOL— Melba, Idaho

A bond issue for $192,000 which will finance construction of a six-room elementary school and renovation of the present gymnasium for use as classrooms, was approved by voters in the Melba School District. The district is composed of sections of three counties, Canyon, Ada and Elmore. DC 3-7

● SHOP, ADMINISTRATION BUILDING— Mountain Home AFB, Idaho

Bid opening established as 2 p.m., April 9, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of a one-story reinforced concrete and masonry block maintenance shop and administration building, including interior and exterior utilities. Installations Engineer Facility, Mountain Home AFB; ENG-45-164-58-37. Plans with above office. $100 deposit. Bid bond 20%. For complete description see previous report.

SP 3-11. Previous report 3-1

● PARTITION, LIGHTING, HEATING REPAIRS— Pocatello, Idaho

Bids will be opened 3 p.m., March 27, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for new partition, lighting and heating repairs at the U.S. Post Office and Courthouse, S. Arthur Ave. and W. Lewis, Pocatello; Proj. No. SEA-986. Specifications with above office. SP 3-11

● BUILDINGS, ROADS— Salmon, Idaho

Bids will be opened March 28, advanced from estimated date of April 16, by Civil Aeronautics Administration, Procurement Branch, 5651 W. Manchester Ave. (Box 45007, Airport Station), Los Angeles, Calif., for construction of VHF/UHF, A/G communication facility including access road and VHF/UHF, A/G communications concrete block building (Sched. 1) and concrete block garage building (Sched. 2) at Salmon; Proposal No. 4-58-988. Plans with above office.

SP 3-11. Previous report 3-1

CAPEHART HOUSING, OAHU

Six firms submitted bids to the District Public Works Office, 14th Naval District, Administration Bldg., Pearl Harbor Naval Shipyard, Pearl Harbor, Oahu, T.H., for constructing 248 dwelling units, roads, streets, utilities, services, and furnishing and installing appliances for a Capehart Housing Project at Camp H. M. Smith, Halawa Heights, U. S. Naval Ammunition Depot, Manana, Oahu, T.H. LOW BIDS: Murray Sanders & Associates, 2116 S. Main, Santa Ana, Calif., $3,000,268; Pacific Construction Co., Ltd., Honolulu, T.H., $3,494,000; Phillips Yousen, Venice, Calif., $3,504,890. High bid was $3,622,412. Bids opened March 5.

DC 3-11. Previous report 2-11

MONTANA

● CHURCH— Baker, Mont.

Bids will be received until 11 a.m., M.S.T., March 18, by Most Rev. William J. Condon, bishop of Great Falls, and will be opened at the Catholic rectory in Baker, for construction of St. John the Evangelist church in Baker. Plans with Shanley, Shanley & Anderson, architects, 201 Barber-Lydiard Bldg., Great Falls.

Plans call for masonry construction with brick veneer, frame partitions, asphalt tile flooring, plaster walls, plaster and acoustical tile ceilings, and gas fired hot water heating system. SC 3-7

● REFINERY CHANGEHOUSE— Billings, Mont.

Bids will be opened 2 p.m., March 25, in the office of Cushing, Terrell & Associates, architects, 1333 Airport Road, Billings, for construction of a one-story and no basement, 80'x54', concrete and masonry changehouse at the Carter Oil Co. refinery southeast of Billings. Plans with the architects. $25 deposit. One general contract.

Concrete slab on grade; steel joist and concrete slab roof; two aluminum entrances, metal doors; aluminum windows; glazed structural tile and ceramic tile flooring; plaster ceilings; radiant heat from central heating plant. Sixteen showers to be included. Owner will provide lockers to be installed by contractor. EE 3-12

■ FISH AND GAME DEPARTMENT HEADQUARTERS— Billings, Mont.

Planholders announced for construction of a one-story, no basement, 50'x64' combination office and storage building to be located on Lake Elmo Road outside Billings. Bids will be opened 11 a.m., March 18, by Montana Fish and Game Commission, State Capitol Bldg., Helena. Plans by staff members of department.

Planholders: John E. Stevens, 3057 Lake Elmo Drive; P. C. Dahl, 535 Grande Ave.; Elmer R. Pogue, Box 155; William W. Jetteries, 2549 Wyoming Ave.; S. W. Scott, 2626 Pine; Bailey Construction Co., 2964 Harrow Drive; Hardy Construction Co., Box 1202; R. L. Strafford & Co., Box 544; C & M Construction Co., Box 70; all of Billings. J. W. Flynn Co., 420 Leslie Ave., Helena.

LS 3-11. Previous report 2-1

■ RESIDENCES— Glacier National Park, Mont.

Planholders announced for construction of six three-bedroom residences in the headquarters area of Glacier National Park, Flathead County, Mont.; Proj. No. GL-W-146. Bids will be opened 2 p.m., March 20, in the office of the superintendent, Glacier National Park, West Glacier.

Planholders: Consolidated Builders United, Inc., Box 375, Whitefish; L. P. Barney Construction Co., 1100 Waukesha Ave., Helena; Robert N. Smith, 337 2nd St. W., Kalispell; Darling-Loxide Co., 423 Riverview Court, Great Falls; Brezina Construction Co., 709 Steele, Rapid City, S. Dak.; Henry-Moller & Rust, Inc., 358 Sonna Bldg., Boise, Idaho; Leonard Kaeding, Route 1, Whitefish; Floyd C. Cagle, Box 454, Columbia Falls; Bergum Bros., 915 Poplar St., Helena; M. M. Barker Steel Building Co., 5600 3rd Ave. S., Great Falls; Davidson Building Service, 1156 Lincoln Ave., Havre; H. E. Schimmels Co., N. 605 Eastern St., Spokane, Wash.

Farrier Construction Co., 2200 N. Benton Ave., Helena; Robert C. Warner, Inc., 2838 Eaton St., Denver, Colo.; J. G. Prokesh, 1105½ Longmont, Boise; E. F. Matelich Construction Co., Box 456, Conrad Bank Bldg., Kalispell; L. C. LaRue, Kalispell; Refer Construction Co., Box 449, Miles City; W. G. Dale, 114 E. 20th St., Cheyenne, Wyo.; Gyrion Construction Co., 94 5th Ave. W.N., Kalispell; John Glass, Route 1, Kalispell; Canoy Construction Co., Box 736, Great Falls; Frank J. Nay, Box 739, Dallesport, Wash.; Pacific Western Lumber Co., 917 S.W. Oak St., Portland, Ore.; Home Lumber Co., 526 2nd St., Whitefish; Cerovski Cement Products, Inc., 204 W. McKinley, Lewistown, Mont.; Intermountain Tile and Marble Co., 815 1st Ave. S., Great Falls; Monarch Lumber Co., 925 8th Ave. N., Great Falls; Fullerton Plumbing and Heating, Hamilton.

SP 3-12. Previous report 3-4

HEADQUARTERS, THEATER BUILDINGS— Glasgow AFB, Mont.

Bids will be opened on or about April 15 by Corps of Engineers, Walla Walla district, Building 602, City County Airport, Walla Walla, for construction of squadron headquarters buildings and theater at Glasgow AFB, Glasgow, Mont.; ENG-45-164-58-29. Project will involve two squadron headquarters buildings, 2,800 sq. ft. each, and a 5,600 sq. ft. theater. Plans call for masonry block; metal joists and roof decking (theater to have concrete roof decking); insulated five-ply built-up roof; heat exchanger connection to central system; water, sewer, exterior and interior electrical, concrete sidewalks and curbs; insulation heating lines. Completion time 240 days. DM 3-8

■ FAMILY HOUSING— Glasgow, Mont.

Planholders announced for construction of 67 family housing units at Glasgow AFB; ENG-45-164-58-27. Bids will be opened 2 p.m., March 26, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.

Planholders: C & M Construction Co., 2160 Central Ave., Billings; Peter Kiewit Sons' Co., Box 1854, Billings; Long Construction Co., Box 1875, Billings; E. V. Lane Corp., Box 1847, Fort Peck; Robertson & Cave, Inc., Box 1488, Great Falls; Brezina Construction Co., 709 Steele Ave., Rapid City, S. Dak.; Northwestern Engineering Co., Box 1382, Rapid City; Hale Construction Co., Box 782, Pasco; Lewis A. Hopkins & Co., 221 S. 3rd St., Pasco; Peter Kiewit Sons' Co., 1300 Aloha, Seattle; H. S. Leigland & Sons, 1361 N. 35th St., Seattle; Mortensen Construction

Co., 1021 Westlake Ave. N., Seattle; Refer Construction Co., Box 449, Miles City; Thersell Bros. Construction Co., 408 Westwood Drive S., Minneapolis, Minn.
SP 3-12. Previous report 2-21

▲NAVAIDS BUILDINGS, UTILITIES— Glasgow AFB, Mont.

Bids received by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of TACAN facilities, including Type 1 Navaids (navigational aids) buildings, underground electrical distribution and roads, at Glasgow AFB; ENG-45-164-58-26. Bids opened March 11.

Five bids received. TWO LOW BIDS: Morgen & Oswood Construction Co., Box 226, Glasgow, $24,595; Lindbrook Construction Co., 11738 35th N.E., Seattle, $24,932. HI BID: Refer Construction Co., Miles City, $41,135. Government estimate, $24,230.
SP 3-12. Previous report 2-19

♦DEACONESS HOSPITAL ADDITION— Havre, Mont.

Awards recommended by Don Showman, administrator, Kennedy Deaconess Hospital, Havre, for construction of a two-story and basement, L-shaped addition to the hospital. Plans by Knight & van Teylingen, architects, 305 Masonic Temple Bldg., Havre. Ten general, seven mechanical and four electrical bids opened March 4. Following are basic bids. GENERAL—RECOMMENDED AWARD: Chris Fuglevand Co., 519 4th, Havre, $228,950. 2ND LOW: Waddell Construction Co., Box 212, Helena, $238,000. HI BID: Sterhan Construction Co., Box 1247, Glendive, $266,800. MECHANICAL—AWARD: J. A. McCauley Plumbing and Heating, 520 2nd, Havre, $49,000. 2ND LOW: Roy Nault, 411 3rd, Havre, $54,747. HI BID: Teton Plumbing and Heating, address unknown, $63,584. ELECTRICAL—AWARD: Havre Electric Co., 317 3rd, Havre, $18,550. 2ND LOW: Electric Supply Co., 255 W. 1st, Havre, $18,919. HI BID: Gate City Electric, 202 S. Merrill, Glendive, $21,900.
SP 3-11. Previous report 3-1

●ELEVATOR REPLACEMENT— Helena, Mont.

Bids will be opened 3 p.m., March 27, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for replacement of two elevators with new automatic elevators at the Federal Office Bldg., Park Ave. and Lawrence St., Helena; Proj. No. SEA-1037. Specifications with above office.
SP 3-11

MULTIPURPOSE ROOM ADDITION— Laurel, Mont.

Petitions are being circulated in Yellowstone County School District No. 7, Laurel, for a second election on a $135,000 bond issue to finance construction of a multipurpose room and four-classroom addition to the West Elementary School at Laurel. The first election was held February 8 and failed to win approval because less than the required 40% of eligible voters cast ballots. Plans by Cushing, Terrell & Associates, architects, 1333 Airport Road, Billings.
EE 3-8. Previous report 2-14

AIR FORCE BUILDING ADDITION— Lewistown, Mont.

Bids will be opened on or about April 8 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of an operations building addition (manual), 1,911 sq. ft. in area, with reinforced concrete foundations and floors, frame and steel web joist roof, 12" concrete block curtain walls and air conditioning; ENG-45-108-58-88. Completion time 300 calendar days.
DM 3-8

●SERVICE CENTER— Missoula, Mont.

Bids to be opened at a private meeting, 12 noon, M.S.T., March 22 by Montana Power Co., 40 E. Broadway, Butte for construction of two buildings, a 16,618 sq. ft. service center housing offices and warehouse and a 14,520 sq. ft. equipment storage and shop building, on a 7½ acre site on Russell St. north of the Missoula Mercantile Co. warehouse in Missoula. Plans with Fox, Ballas & Barrow, architects, Savings Center Bldg., Missoula. $50 deposit. Bids to be taken on

CAPEHART HOUSING, HAWAII

Announcement has been made by A. K. Perry of the Public Works Office, U.S. Navy, Pearl Harbor, Honolulu, T.H. of the contract award to Richards Construction Co., Box 1187, Studio City, Calif., $8,794,085 for construction of 650-unit Capehart housing project on Kaneohe Bay, Hawaii.
DM 3-7. Previous report 2-4

the following: A-1, using block walls, structural steel columns and girders, long span steel joists, wood roof deck; B-2, using block walls, structural steel columns, wood roof decks, glued laminated beams and purlins; A-3, using concrete columns, prestressed concrete beams, pre-cast concrete roof channels, block walls. Completion time October or November. Select list of bidders.

Both buildings one-story, no basement; concrete footings and foundations; block walls with alternate for masonry tile; concrete slab floors; masonry partitions, some movable metal; steel sash; exposed masonry, plaster with metal lath partitions; asphalt tile flooring; acoustical suspended ceiling; metal door frames; overhead motor operated door; electric monorail; rigid insulation in roof; fluorescent lighting; hot water heating, gas-fired; unit vents; 101'x164' (service center); 242'x60' (storage building).
LL 3-7. Previous report 2-13

■SCHOOL— Toston, Mont.

Planholders announced on construction of a one-story, no basement, 72'x32', two-classroom school at Crow Creek near Toston, on which bids will be received until 8 p.m., March 18, by Juanita Turman, clerk, School District No. 13, Broadwater County, Toston, and will be opened at Crow Creek School House midway between Radersburg and Toston. Plans by Ostheimer & Campeau, architects, Granite Bldg., Main St., Helena.

Planholders: L. P. Barney Construction Co., 1100 Waukesha Ave.; John A. Bergum Construction Co., 915 Poplar; C. E. Charlton, 802 N. Benton; Al Johnson, 310 S. Park; Waddell Construction Co., 1310 Leslie Ave.; Sternberg & Son, 909 N. Dakota; all of Helena. M. M. Barker, 5600 3rd S., Great Falls; Wallace Diteman, Huffine, Bozeman; Haggerty-Messmer Co., 519 W. Aspen, Bozeman; Wayne Miller, Radersburg; Cerovski Construction Co., Lewistown.
LS 3-11. Previous report 2-25

ALASKA

RETAIL STORE ADDITION— Anchorage, Alaska
(Estimated cost $24,000)

Construction will start soon by Harry L. Swank, owner-contractor, 738 H St., Anchorage, on a one-story, no basement, 1,500 sq. ft., poured concrete and block addition to Van's Sporting Goods retail store at 711 4th Ave. in Anchorage. Plans were prepared by Edwin B. Crittenden & Associates, architects, 837 9th Ave., Anchorage. Subcontract for electrical work has been let to Ed's Electric, 328 4th Ave., Anchorage. Additional subcontracts will be let as work progresses. Completion May 1, 1958. Concrete wall on one side, block wall on other; concrete slab floors; steel supporting structures; flat roof; wood stairway; wood and aluminum windows; asphalt tile flooring; plaster ceilings; aluminum doors; fluorescent lighting; extension to existing hot water heating system.
AL 3-7

▲INTERIOR PAINTING, FINISHING— Anchorage, Alaska

Nine bids received by management supervisor, Alaska Housing Authority, and purchasing agent, Nunaka Valley Authority, at Willow Park Recreation Hall, 9th Ave. and Fairbanks, Anchorage, for interior painting and finishing various units in the Nunaka Valley Project, Nunaka Valley, Anchorage. Bids opened March 7. LOW BID: Iverson Painting Contractors, 2711 E. 17th Place, Anchorage, $108 (two-bedroom unit), $108 (three-bedroom unit), 05c (sq. ft. enamel), 03c (sq. ft. flat wall).
AL 4-12. Previous report 3-4

▲APARTMENT BUILDING— Aniak, Alaska

Seven bids received by Civil Aeronautics Administration, Procurement Division, 223 E. 5th Ave., Anchorage, for construction of a four-unit frame apartment building complete with fuel storage tank, water system, sewerage line, soap bypass line, effluent line and septic tank at Aniak; Inv. No. 5-58-52. Bids opened March 6. APPARENT LOW BIDS: Fairbanks Builders, 1441 Laurene, Fairbanks, $178,772; Nordin Construction Co., Box 1771, Fairbanks, $181,507; Chris Berg, Inc., 2730 Westlake N., Seattle, $193,220.
AL 3-11. Previous report 2-19

●SCHOOL— Bettles, Alaska

Bids will be opened 10 a.m., A.S.T., April 11, by Housing and Home Finance Agency, Field Station, 1107 I St., Anchorage, for construction of a one-story and no basement, 1,500 sq. ft., poured concrete and wood frame, one-classroom school with living quarters at the Civil Aeronautics Administration station, seven mi. from Bettles, north of the Arctic Circle; Proj. AAA-58-C-FED-2H-8. Plans with above office. $7.50 charge. Bid guarantee 5%. Plans were prepared by Alaska Architectural and Engineering Co., 710 3rd Ave., Fairbanks.

Reinforced concrete footings and foundation; 54'x27'; concrete floors; timber girders, beams, columns; flat roof; frame and concrete partitions; wood sash; cedar board and asbestos cement board exterior, Marlite and plasterboard interior wall finish; drywall partitions; asphalt tile flooring; plaster acoustical ceilings; wood and aluminum doors; blackboards, fire doors; rigid and batt insulation in roof and walls; incandescent and fluorescent lighting; forced air perimeter heating system, oil-fired.
AL 3-11. Previous report 2-19

●DORMITORY— College, Alaska

Bids will be opened 10 a.m., April 21, by the University of Alaska in the office of the president at College, for construction of a 100-man dormitory at College; Proj. AAA 50-CH-1. Plans with Foss, Olsen & Sands, architects, 109 W. 3rd, Juneau. $25 deposit.
DC 3-11

●HIGH SCHOOL ADDITION— Eielson AFB, Alaska

Bids will be opened 10 a.m., April 8, by Housing and Home Finance Agency, Field Station, 1107 I St., Anchorage, for construction of a one-story and no basement, 14,570 sq. ft., poured concrete and wood frame, L-

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shaped, six-classroom addition to Ben Eielson High School at Eielson AFB; Proj. AAA-58-C-FED-4A-8. Plans with above office. $7.50 charge. Plans were prepared by Alaska Architectural and Engineering Co., 710 3rd Ave., Fairbanks.

Reinforced concrete footings and foundation; 56'x90' and 64'x162' arms on "L"; concrete floors; timber girders, beams, columns; flat roof; frame partitions; wood sash; cedar board and asbestos cement board exterior, plasterboard; Marlite and flakewood interior wall finish; drywall partitions; maple (multipurpose room) and asphalt tile flooring; plaster acoustical ceilings; blackboards, fire doors; rigid and batt insulation in roof and walls; incandescent lighting; radiant heat, steam from central plant with hot water converter; ventilating ducts to each classroom, heater coil.

AL 3-11. Previous report 2-20

★SHOWER ROOM REPAIR— Elmendorf AFB, Alaska

Award to J. B. Warrack Co., 316 E. 1st Ave., Anchorage, $39,100, by U.S. Air Force, Procurement Office, Elmendorf AFB, for repair of shower rooms in two buildings at the base. AL 3-8. Previous report 3-4

OFFICE BUILDING— Fairbanks, Alaska

Plans are underway by M. R. McEntire & Associates, architects, 201 Chena Bldg., Fairbanks, for remodeling the four-story Lathrop building which was gutted by fire in December. The structure will be rebuilt to house 30 offices on the first three floors, and the KFAR-TV and KFAR radio stations on the fourth floor. AL 3-4

● OPERATION BUILDING ADDITION— King Salmon, Alaska

Bids will be opened 1 p.m., April 3, by U.S. Army Alaska Communication System, Contracting Office, 421 Federal Office Bldg., Seattle, for construction of an addition to the operation building, Bldg. No. 259, for the ACS at King Salmon; Inv. No. 45-041-58-11. Specifications with above office. Work includes excavating; concrete work; carpentry; installing wallboards; roofing; calking; glazing; heating, plumbing and electricity; painting; furnishing and installing hardware. SP 3-12

★HEAVY SUPPORT SHOP— Ladd AFB, Alaska

Award to Industrial and Commercial Construction Co., 1412 4th, Fairbanks, $390,146, by Corps of Engineers, Alaska district, D-E Bldg., Anchorage, for construction of a tactical facilities heavy support shop and outside utilities at Ladd AFB; ENG-95-507-58-6. SP 3-12. Previous report 2-27

● BUILDING, ROAD, POWER LINES— Yakutat, Alaska

Bids will be opened 2 p.m., A.S.T., March 25, by Civil Aeronautics Administration, Procurement Branch, 219 E. 5th Ave., Anchorage, for construction of a standard VORTAC facility, including access road, site preparation, wood frame or concrete building complete with utilities, standby power unit installation and power and control line construction, at Yakutat; Inv. No. 5-58-57. Specifications with above office. $20 deposit (no personal checks or company checks accepted). SP 3-7

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

● GENERATORS— Baker AFS, Ore.

Bids will be opened 2:15 p.m., P.S.T., March 18 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for installation of two 200 kw government furnished diesel generators and accessories, re-energizing two substations, furnishing and installing a switchboard, modication of fuel oil piping system and electrical wiring, at Baker Air Force Station, Ore. and in Beaver Mountain area (with exception of re-energizing substation); ENG-45-108-58-68. Plans with Seattle office.

DM 3-8. Previous report 2-18

▲CLEARING, ACCESS ROADS— Benton, Lincoln Counties, Ore.

Eleven bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing and right-of-way and construction of access roads for Sched. 2 of the Albany-Toledo section of the Santiam-Toledo 230-kv line No. 1, beginning approximately one mi. southwest of Blodgett, Ore., and terminating at the Toledo Substation 230-kv deadend structure, Benton and Lincoln counties, Ore.; Inv. No. 8653. Bids opened March 5. BIDDERS: Cresto & Lamphere, Box 251, Easton, Wash., $133,830; Murray Bros. Construction Co., P.O. Box 191, Bend, $135,690; L. D. King, Route 1, Box 1638, Sweet Home, $137,175; H & M Construction Co., Box 8757, University Station, Denver, $137,615; Mack Slate Jr., 632 Washington St., Albany, $146,782; Harold Halstead, P.O. Box 157, Oakridge, $147,361; Gibson & Goschie, P.O. Box 238, Albany, $166,870; Helmick Co., P.O. Box 6128, Seattle, $167,368; R. & P. Constructors, Star Route 1, Box 86, Shelton, Wash., $179,404; Washington Utilities Construction Co., 1203 Regents Blvd., Tacoma, $209,537; Schutt Construction Co., P.O. Box 727, Springfield, $230,320. WB 3-7. Previous report 2-26

● CLEARING (Areas 18, 19)— Blue River, Ore.

Bids will be opened 2 p.m., April 2, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for clearing areas 18 and 19, consisting of approximately 124 acres, at Cougar Reservoir on the South Fork McKenzie River, approximately 10 mi. south of Blue River, Lane County, Wash.; CIV-ENG-35-026-58-137. Specifications with above office. SP 3-12

● CLEARING (Area 16)—Blue River, Ore.

Bids will be opened 2 p.m., April 8, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for clearing area 16, units 1 and 2, consisting of approximately 134 acres, at Cougar Reservoir on South Fork McKenzie River, about nine mi. south of Blue River, Lane County, Ore.; CIVENG-35-026-58-136. Specifications with above office. SP 3-12

★FISHWAY BOOM— Bonneville, Ore.

Award to Hanly Salvage Co., 3912 Pacific Way, Longview, $3,963, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for fabricating and delivering, fob Bonneville, of 350' of boom for installation at the Bradford Island fishway; CIVENG-35-026-58-107. WB 3-11. Previous report 2-20

★REINFORCED CONCRETE BRIDGE— Bull Run, Ore.

Award to Mann Construction Co., P.O. Box 577, Redmond, $43,978, by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.E. Oregon St., Portland (P.O. Box 4137), for the two-lane, 164' reinforced concrete Bull Run River Br near Bull Run, Clackamas County, Mt. H National Forest, Ore.; Bid No. 256. WB 3-12. Previous report

● PAVING— Empire, Or

Bids to be received until 5 p.m., April by B. T. Van Wormer, city manager, Hall, Empire, and opened 8 p.m. by the Council, for asphaltic concrete paving District No. 11. Specifications with office. $10 deposit. Certified check This is a unit price contract and quantit may be varied.

Quantities: 1,000 c.y. excavation, gradi 900 c.y. fill; 1,956 c.y. 1½" crushed roc 946 c.y. ¾" crushed rock; 200 c.y. ¼" crush rock; 771' integral curb, gutter; 4,530 16" concrete curb; 600' culvert pipe; 1,8 ton asphaltic concrete; 1 treated timb bulkhead. DC 3-

■ DREDGING— Garibaldi, Or

Planholders announced for dredging mooring basin and entrance channel at Ga baldi, Ore.; CIVENG-35-026-58-126. Bids w be opened 2 p.m., March 25, by Corps Engineers, Portland district, 628 Pittoc Block, Portland.

Planholders: General Construction Co., O. Box 3845, Seattle; Columbia Marine Se & Service, P.O. Box 179, Vancouver, Wash Umpqua River Navigation Co., Reedspor General Construction Co., P.O. Box 38 Portland; Port of Astoria, P.O. Box 569, A toria; Palmberg Construction Co., P.O. Bo 991, Astoria; Willamette Tug & Barge C Foot of N. Portsmouth St., Portland; A sociated Dredging Co., 1702 Bridgeway, Sa salito, Calif.; Quigg Bros.-McDonald, In 1500 Riverside Ave., Hoquiam. WB 3-8. Previous report 3-

★CAST IRON PIPE— Hillsboro, Or

Award to U.S. Pipe and Foundry Co., Co man Bldg., Seattle, $7,975, by City Utilit Commission, City Hall, Hillsboro, for fu nishing and delivering 2,100' of 8" to 12" ca iron pipe. Bids opened March 3. SP 3-11. Previous report 3-

★CONVEYOR BELTING— Hillsboro, Or

Award to Goodyear Rubber and Asbest Co., 205 N.E. 5th, Portland, $6.62 per ft., b Washington County Court, Courthouse, fo furnishing conveyor belting fob Washingto County Road Department Repair Shop near Hillsboro. SP 3-12. Previous report 3-

● WATER WELL— Lake County, Ore

Bids will be opened 2 p.m., April 3, b Bureau of Land Management, 1001 N.E Lloyd Blvd., Portland, for drilling and casing a 600' stock water well on south slope o Green Mountain in Lake County; Inv. 9 WB 3-1

★VIBRATION DAMPER— Marcola, Or

Award to Willamette Manufacturing & Supply, Inc., 123 S.W. Clay St., Portland $4,811, by Bonneville Power Administration 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering fob Marcola, 340 vibration dampers; Inv. No. 8644. A total of five bids were received February 18. WB 3-7. Previous report 2-

● METAL COVERED WALKWAYS— Mt. Hebo Station, Ore

Bids will be opened 10 a.m., April 1, b U.S. Air Force, Procurement Office, 237th Fighter Group, Portland International Airport, Portland, for installation of metal covered walkways at Mt. Hebo Air Force Station on the Oregon Coast; IFB 58-37. WB 3-

PUMPHOUSE, WATER PUMPS, STANDPIPE— North Bend AFS, Ore.

Bids will be opened on or about April 1 by Corps of Engineers, Seattle office, 473 E. Marginal Way, Seattle, for additional water supply facilities, including pumphouse, water pumps, water line, steel standpipe and related valves, piping and electrical controls at North Bend Air Force Station; ENG-45-108-58-92. Specifications with above office.

Work consists of construction of a 12'x1 pumphouse; installation of a 56-gpm, 3 p.s.i. piston type electric motor driven wate

pump; installation of a 56-gpm, 375 p.s.i. piston type gasoline-engine driven water pump; replacement of an existing motor driven water pump; installation of 5,250' of 2" water line; installation of one 25,000-gal. steel standpipe; installation of related valves, piping and electrical controls. SP 3-12

■ASPHALTIC CONCRETE PAVING— Ontario, Ore.

Planholders announced for construction of asphaltic concrete pavement of a leveling and binder course on various streets in Ontario. Bids will be opened 8 p.m., March 17, by Eldon S. Mills, city recorder, City Hall, Ontario.

Planholders: L. W. Vail Co., Inc., Box 847, Pasco, Wash.; Russell Olson Construction Co., Box 272, Pendleton; Hardisty Construction Co., 219 Medical Arts Bldg., Vancouver; Bibler Bros., Inc., 4617 S.E. Milwaukie Ave., Portland; The United Contracting Co., Box 3015, Portland; S. D. Spencer & Son, 4614 N.E. 12nd Ave., Vancouver; Acme Pavers, Inc., Box 603, Kennewick; Central Paving Co., Box 38, Independence; Kiely Construction Co., Drawer 246, Butte, Mont.; J. C. Compton Co., Box 86, McMinnville; Inland Asphalt Co., Box 4116, Station B, Spokane. SP 3-12. Previous report 2-26

★CAPACITOR RACK EQUIPMENT— Portland, Ore.

Award to Tobe Deutschmann Co., Norwood, Mass., $688,100, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing capacitor rack equipment; Inv. No. 8640. WB 3-8

●TRANSMISSION LINE (Scheds. 1 and 3)— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., April 1, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Scheds. 1 and 3 of Santiam-Alvey section of the McNary-Alvey 287 kv transmission line No. 1, Linn and Lane counties, Ore.; Inv. No. 8675. Plans with above office. $25 deposit. Bid bond 25%. Completion time 160 calendar days.

SCHED. 1—Group A, Tower Foundations, Guy Anchors: grillage footing, anchors; 300 c.y. com. excavation; 50 c.y. rock excavation; 50 c.y. concrete; 5,000 lb. reinforcing steel; 2,000 lb. structural steel. Group B, Tower Erection: tower bodies; erect 307,000 lb. leg extensions; erect 28,600 lb. steel structures; erect 11,100 lb. lattice pole sections; other items. Group C, Stringing Conductor: 21.2 cir. mil. ACSR Pheasant. SCHED. 3—Group D, Tower Foundations, Guy Anchors; grillage footing, anchors; 1,200 c.y. com. excavation; 50 c.y. rock excavation; 300 c.y. concrete; 35,000 lb. reinforcing steel; 2,500 lb. structural steel. Group E, Tower Erection: tower body; erect 289,500 lb. leg extensions; erect 98,900 lb. steel structures; erect 15,600 lb. lattice pole sections. Group F, Stringing Conductor, Overhead Ground Wire: 22.1 cir. mil. ACSR Pheasant. DM 3-8

▲STREET IMPROVEMENT—Portland, Ore.

Six bids received by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for grading, constructing rock base and surfacing S.E. Main St. and S.E. 115th Ave. Bids opened March 6. S.E. MAIN ST.—LOW BIDS: Multnomah Road & Concrete Co., 1128 S.E. 122nd Ave., $4,141; Logan, Taylor & Co., 7800 N.E. Killingsworth St., $4,325; Parker & Fuhrman, 11524 S.E. Foster Road, $4,332. HI BID: H. M. Peterson, 13548 N.E. Glisan St., $5,003. S.E. 115th AVE.—LOW BIDS: Multnomah Road & Concrete, $2,713; Oregon Asphaltic Paving Co., 0440 S.W. Porter St., $2,946. H. M. Peterson, $2,995. HI BID: Parker & Fuhrman, $3,174. WB 3-8. Previous report 2-25

●REFUELING SYSTEM REVISION— Portland, Ore.

Bids will be opened 10 a.m., March 19, by U.S. Air Force, Procurement Office, 337th Fighter Group, Portland International Airport, Portland, for modifying refueling system from hydraulic displacement to mechanical pumping; IFB-58-36. Tours of the project will be held at 3 p.m., March 10, 12, 14 and 17. WB 3-8

●SCRAPER— Portland, Ore.

Bids will be opened 2 p.m., March 20, by city purchasing agent, 208 City Hall, Portland, for one 1½-yard scraper, two-wheel, hydraulically controlled, for Bureau of Parks. Certified check or bid bond 10%. WB 3-8

●ARC WELDER— Portland, Ore.

Bids will be opened 2 p.m., March 20, by city purchasing agent, 208 City Hall, Portland, for gasoline driven D.C. 250-amp arc welder. Certified check or bid bond 10%. WB 3-8

●AIR COMPRESSOR— Portland, Ore.

Bids to be opened 2 p.m., P.S.T., March 26 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland for furnishing fob Vancouver, Wash., one air compressor, multiple stage, air cooled, 20 cfm free air capacity at 500 psi gage discharge pressure. Delivery 30 calendar days. Plans with Portland office. DM 3-8

●STATE HIGHWAY PROJECT— Portland, Ore.

Bids will be opened 9 a.m., March 27, by Oregon State Highway Commission in the Queens Room of the Imperial Hotel, Portland, for the following highway construction project. Specifications with the highway commission, State Highway Bldg., Salem. $2 payment.

BRIDGES, Ontario—Construction of twin bridges, each 968' long, across the Snake River at Ontario. Project is part of the Old Oregon Trail and will link Oregon with Idaho.

Quantities: 40,000 c.y. structural excavation; 2,100' steel piling; driving 80 steel piles; 3,820 c.y. class A concrete; 577,000 lb. metal reinforcement; 1,860,000 lb. structural steel; 3,870' metal parapet rail; 200' of 8" metal drain pipe. SC 3-8

●STREET IMPROVEMENTS—Portland, Ore.

Bids will be opened 10:30 a.m., March 20, by Multnomah County Commissioners, J. W. West, purchasing agent, 504 County Courthouse, Portland, for two street improvement projects. Plans with roadmaster's office, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%.

S.E. MILL ST.—From 167th to 172nd Ave. Including grading, surfacing with asphaltic concrete, constructing curbs and driveway approaches. Quantities: 2,046 c.y. general excavation; 1,000 c.y. 2" minus material-in-base; 512 tons class C asphaltic concrete; 2,924' concrete curbs. N.E. 52ND AVE.—From Ainsworth north 44'. Included grading, constructing rock base and shoulders and paving with asphaltic concrete. Quantities: 724 c.y. general excavation; 388 c.y. 2" minus material-in-base; 186 tons class C asphaltic concrete. WB 3-11

★STATE HIGHWAY PROJECTS— Portland, Ore.

Two awards announced by Oregon State Highway Commission, Salem, for highway construction on which bids opened February 27 in Portland.

GRADING, OILING, Horse Ranch - Fort Rock Section—Grading, oiling 6.38 mi. Fort Rock Road about 31 mi. southeast of Lapine, Lake County; FAP No. S-363(1).

AWARD: A. L. Harding, Inc., Box 708, Stayton, $103,940.

BRIDGE, Little Luckiamute River Bridge of Falls City—Construct 170' reinforced concrete bridge, Polk County; FAIP No. S-149 (4).

AWARD: Henry G. Stach, Oakridge, $35,477. SP 3-12. Previous report 3-1

SEWERS— Roseburg, Ore.

Bids will be opened about April 7 by City Council, City Hall, Roseburg, for three sewer projects, one in Miller's Addition (estimated cost $76,101), one in Sundale Village ($2,070) and one on Garden Valley Blvd. ($43,661). When plans are completed, they may be obtained upon $45 deposit from the office of the city engineer, Box 748, Roseburg. SP 3-11

★STATE HIGHWAY PROJECT—Salem, Ore.

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened February 6.

GRADING, Thomas Creek-Cape Ferrelo Section—Grading 3.93 mi. of Oregon Coast Highway about five mi. north of Brookings, Curry County; Federal Aid Bond Project No. BF-124(12).

AWARD: Darkenwald Construction Co., Inc., and Harms Bros., 2131 Fulton Ave., Sacramento, Calif., $1,635,781.

SP 3-12. Previous report 3-1

●HYDRAULIC JACKS— Seufert, Ore.

Bids will be opened 11 a.m., March 17, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for furnishing 22 hydraulic jacks, 5 to 50-ton capacity, 8 journal jacks, 15 and 25 tons, and 4 screw jacks with rachet lever socket, 10-ton; fob Seufert, (The Dalles) Ore.; CIVENG-35-026-58-130. WB 3-8

●SEWER— The Dalles, Ore.

Bids will be opened 5 p.m., March 17, by City Council, City Hall, The Dalles, for construction of the E. 9th St. sanitary sewer easterly of Quinton St. Specifications with city engineer, City Hall. $50 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 70 c.y. common trench excavation; 180 c.y. solid rock trench excavation; 620' of 8" concrete sewer pipe; three manholes. DC 3-12

■ACCESS ROAD, VIEW AREAS— Umatilla, Ore.

Planholders announced for left abutment access road and view areas, McNary Lock and Dam, near Umatilla, Ore.; CIVENG-45-164-58-39. Bids will be opened 2:30 p.m., March 18, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.

Planholders: K. L. Clark, Route 2, Box 317, Hermiston; Hodges & Barger, 817 W. 11th St., The Dalles; Walt Young Construction Co., Route 1, Box 117, Hermiston; Interstate Construction Co., Box 887, Madras; Parker-Schram Co., 200 Builders Exchange Bldg., Portland; J. G. Watts Construction Co., Co., Route 1, Box 300, Salem; Don Akins, Inc., Box 298, Ellensburg; Cherf Bros. and Sandkay Contractors, Inc., Box 938, Ephrata; Acme Pavers, Inc., Box 603, Kennewick, Wash.; Glenn Dusky, Box 1156, Moses Lake; Erwen Construction Co., 831 S. 4th St., Pasco; L. W. Vail Co., Box 847, Pasco; Hoffman Construction Co., 1345 Lee Blvd., Richland; Wayne Construction Co., 3810 Stone Way, Seattle; Max J. Kuney, N. 120 Ralph St., Spokane; Jensen-Rasmussen & Co., Box 89, Sunnyside; Blue Mountain Paving, Inc., 702 S. 9th St., Walla Walla; Morrison & Co., Box 597, Walla Walla; Columbia Asphalt Paving Co., 206 Masonic Temple Bldg., Yakima; Clifton & Applegate, Yardley; H. Halvorson, Inc., Box 6, Yardley; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland; Murphy Bros., Inc., Box 2193, Spokane; Joplin Construction Co., Box 785, Portland; Otis Williams & Co., Box 1193, Kennewick; John M. Keltch, Box 504, Pasco; Shirley G. Stone Co., 2001 S.W. Market Road, Oswego.

SP 3-11. Previous report 3-4

WASHINGTON

PUMPING STATIONS— Aberdeen, Wash.

Bids may be called about April by City Council, City Hall, Aberdeen, for installation of several pumping stations throughout north and south Aberdeen in connection with the city's pollution control and sewage disposal project. Plans are being prepared by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland.

SP 3-7. Previous report 1-23

SEWERS, SEWAGE TREATMENT PLANT— Arlington, Wash.

Plans have been completed by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima, for construction of a sewage treatment plant and lift station (Sched. 1) and installation of storm and sanitary sewers (Sched. 2) at Arlington. Financial arrangements are being completed by City Council, City Hall, Arlington.

Quantities—SCHED. 1: 450 c.y. excavation and backfill; 70 c.y. foundation and bedding gravel; 165 c.y. concrete; 550' water stops; sewage lift pumps and controls; sludge heating system; concrete block or prefabricated metal operating house; two sewage lift station structures. SCHED. 2—Storm Sewers: 7,500 c.y. excavation and backfill; 180 c.y. foundation and bedding gravel; 5,955' concrete pipe; 420' steel pipe; lump sum for crushed gravel street surfacing, optional; 1,360 sq. yd. asphalt pavement repair, optional; 75 sq. yd. concrete sidewalks; 15 sq. yd. curb and gutter repair, optional; 600 c.y. mi. waste haul. Sanitary Sewers: 46,500 c.y. excavation and backfill; 800 c.y. foundation and bedding gravel; 49,700' sewer pipe; 245' pipe for railroad crossing; 725 steel pressure pipe; 50 sq. yd. sidewalk repair, optional; 510' curb and gutter repair, optional; 700 c.y. gravel street surfacing.
IG 3-11. Previous report 1-23

▲STEEL BRIDGE— Centralia, Wash.

Bids received by City Commission, City Hall, Centralia, for construction of a steel bridge over the north fork of the Newaukum River at the intakes of the Centralia and Chehalis water systems. Bids opened March 11.

Four bids received. TWO LOW BIDS: Frank Pakar, 2304 Snively, Chehalis, $12,984; J. E. Langford, 1888 Kelly, Chehalis, $14,213. HID BID: Richard L. Martin, Foothills Road, Oswego, Ore., $16,853.
SP 3-12. Previous report 2-28

● WATER CONTROL STRUCTURE, DITCH— Cheney, Wash.

Bids will be opened 10 a.m., P.S.T., March 25, by Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for construction of a reinforced concrete water control structure and drain ditch at the Turnbull National Wildlife Refuge near Cheney. Plans with Leo L. Laythe, regional director, above address. DM 3-7

● SUBSTATION ADDITIONS— Cosmopolis, Wash.

Bids will be opened 2:30 p. m.,March 27, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 115-kv additions to Cosmopolis Substation located on the west side of U.S. Highway No. 101 just south of Cosmopolis, Grays Harbor County, Wash.; Inv. No. 8683. Specifications with above office. Bid bond 25%.

Quantities: 470 c.y. excavation and grading; 284 c.y. structural excavation; 76 c.y. reinforced concrete footings; 115 c.y. duct system excavation; 11 c.y. excavation for steel ducts; installation of station equipment; 515 sq. ft. concrete sidewalks; 100 c.y. crushed rock. SP 3-12

★CRUSHED ROCK— Coupeville, Wash.

Award to Marine Asphalt Co., Anacortes, $26,900, by Island County Commissioners, Courthouse, Coupeville, for production of about 40,000 c.y. crushed rock surfacing material. ET 3-12. Previous report 3-7

★CURB, SIDEWALK— Edmonds, Wash.

Award to Metropolitan Construction Co., 1008 Broadway, Everett, $10,294, by City Council, City Hall, Edmonds, for construction of 2,000' cement concrete curb and 1,500 sq. yd. cement concrete sidewalks on 3rd Ave. between Alder and Pine streets, LID No. 82, Edmonds. Plans by James H. Reid & Associates, consulting engineers, 324 Main St., Edmonds. SP 3-7. Previous report 2-20

★WATER PIPE— Edmonds, Wash.

Award to Pacific States Cast Iron Pipe Co., Smith Tower, Seattle, $1.97 per ft., $4,728 total, 10 day delivery time, by City Council, City Hall, Edmonds, for furnishing a carload of 6" water pipe and installation of approximately 2,000' of 6" water main on Pine Ave. from 6th to 9th avenues in Edmonds. Plans by James H. Reid & Associates, consulting engineers, 324 Main St., Edmonds. Bids opened March 4. The contract was awarded on the alternate bid; basic bid from Pacific States was $2.05 per ft., $4,920 total. ONLY OTHER BID: United States Pipe and Foundry Co., White-Henry-Stuart Bldg., Seattle, $2.05 per ft., $4,920 (basic), $1.95 per ft., $4,728 (alt.), two to three weeks delivery time. SP 3-7. Previous report 2-11

● RADIAL GATE CHECK CONTROLS— Ephrata, Wash.

Bids will be opened 10 a.m., April 8, by Bureau of Reclamation, Box 368, Ephrata, for construction of seven automatic controls for radial gate checks, Potholes East Canal, 4th Section, west of Eltopia, Franklin County, Wash.; Spec. No. 117C-506. Specifications with above office. SP 3-12

● CAST IRON PIPE— Everett, Wash.

Bids will be opened 10 a.m., March 26, by John L. Sugars, city clerk, City Hall, Everett, for furnishing 5,000' of 3", 15,000' of 6" and 4,500' of 8" cast iron water pipe. Specifications with above office. HH 3-7

★WATER SYSTEM IMPROVEMENTS (Unit 1) Everett, Wash.

Award to Alton V. Phillips Co., 4055 21st Ave. S., Seattle, $181,742 (steel pipe), by City Council, City Hall, Everett, for installation of steel water pipe, Unit No. 1 of the Lake Chaplain-Everett water line. Plans by John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland. HH 3-8. Previous report 3-5

● FIRE ALARM EQUIPMENT— Everett, Wash.

Bids will be opened 10 a.m., March 25, by John L. Sugars, city clerk, City Hall, Everett, for furnishing and installing complete Type A central office fire alarm equipment. Specifications with Fire and Police Signal Department, 2901 Oakes Ave., Everett. HH 3-8

● STREET RECONSTRUCTION— Everett, Wash.

Bids will be opened 3:30 p.m., March 21, by City Council, City Hall, Everett, for reconstruction of Alverson Blvd. from the new Norton Ave. overpass to the traffic interchange at Walnut St. and Highway 99 N. Plans with city engineer, City Hall.

A recently approved $600,000 bond issue will finance the above project as well as the Norton Ave. overpass and the proposed Walnut St. improvement. DC 3-8

★BULKHEAD REPAIR— Everett, Wash.

Award to Shaffer Construction Co., Box 804, Everett, $24,741, by Port of Everett, Pier No. 1, Everett, for reconstructing the bulkhead at the Fishermen's Dock on 14th St. in Everett. Plans by James H. Reid & Associates, consulting engineers, 324 Main St., Edmonds. HH 3-11. Previous report 3-6

● ASPHALT SPREADER— Everett, Wash.

Bids will be opened 2:30 p.m., March 24, by Snohomish County Commissioners, Courthouse, Snohomish, for furnishing one tow type 8' asphalt spreader for county road district No. 2. Specifications with county purchasing agent, Everett. HH 3-12

● DRAINAGE LINE REPAIR— Fairchild AFB, Wash.

Bids will be opened 10:30 a.m., March 18, by U.S. Air Force, Procurement Office, Fairchild, AFB, for repairing drainage lines at the central steam heating plant, Bldg. No. 2175, at the base; Inv. No. 58-70. Specifications with above office. SC 3-7

▲WELL DRILLING— Forks, Wash.

Five bids received by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, for drilling, casing, sealing, developing and testing a water well on a government-owner site at the Klahowya Campground, Clallam County, Olympic National Forest, Wash.; Inv. No. 259. BIDDERS: K. & M. Well Drilling, Box 376, Centralia, $1,019; Glacier Pump & Drilling Co., 10435 N. Sheridan, Tacoma, $1,022; Harold S. Mykol, 4305 Lacey Blvd., Olympia, $1,169; Western Drilling Co., 1545 Bay St., Tacoma, $1,152; Stoican Drilling Co., Route 3, Box 175, Port Orchard, $1,228. Bids opened March 10.
WB 3-12

● CENTRAL HEATING PLANT ADDITION— Fort Lewis, Wash.

Bid opening established as 2 p.m., April 8, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 40'x56' reinforced concrete addition to the central heating plant, Ordnance Facilities, Fort Lewis; ENG-45-108-58-72. Specifications with above office.

Work includes furnishing and installation of two high pressure steam boilers and appurtenances including two 25,000-gal. underground fuel oil tanks. Building to include necessary electrical work and sewer connections to existing heating plant.
SP 3-7. Previous report 3-2

▲GENERATOR INSTALLATION, EQUIPMENT— Geiger AF Station, Wash.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for installation of two 250-kw government-furnished diesel generators and accessories, re-energizing five substations, furnishing and installation of a switchboard and other electrical equipment, and modification of the fuel oil piping system and electrical power wiring at Mica Peak, Geiger Air Force Station; ENG-45-108-58-57. Bids opened March 6.

Five bids, ranging up to $20,545. LOW BIDS: Power City Electric Co., N. 926 Howard, Spokane, $15,790; D. G. Quinton Co., N. 1413 Division, Spokane, $16,953; Kelso Electric Co., N. 416 Helena, Spokane, $19,[illegible]. Government estimate, $20,689.
DM 3-7. Previous report 3-[illegible]

★ELECTRICAL DISTRIBUTION FACILITIES— Geiger AFB, Wash.

Award to Power City Electric Co., N. 926 Howard, Spokane, $115,963, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for electrical distribution facilities at Geiger AFB; ENG-45-108-58-50.
DM 3-8. Previous report 3-[illegible]

AIRPORT— Gig Harbor, Wash.
(Estimated cost $1,600,000)

On the March 11 ballot will be a resolution authorizing a bond issue to provide $350,000 toward the development of an airport for the city on the Peninsula in Gig Harbor area. The city will furnish $350,000 toward the construction of the airport, the Port of Tacoma $350,000, Weyerhaeuser Timber $100,000 and an individual will contribute $5,000. The city has an application pending to the CAA for $800,000 in federal funds.
DC 3-7. Previous report 1-[illegible]

● DRILL WATER WELLS— Grays Harbor County, Wash.

Bids will be opened 2 p.m., March 24, by Forest Service regional supply officer, 729 N.E. Oregon, Portland, Ore. (Box 4137) for drilling two water wells at Quinault Ranger Station and Ollalie Campground in Grays Harbor County, Olympic National Forest. Plans with above office and with forest supervisor, Post Office Bldg., Olympia. The wells, which will be located about 45 mi. north of Aberdeen on southeast shore of Quinault Lake, will be 40' and 60' deep; will accommodate a 6" I.D. casing. DC 3-[illegible]

★SUBSTATION— Grays River, Wash.

Four bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of 3-mva Svenson substation, approximately five mi. west of Grays River, Wahkiakum County, Wash.; Inv. No. 8654. Bids opened March 10. BIDDERS: H. B. Nesheim, 6714 36th Ave. S.W., Seattle, $11,212; The Brandon Co., 6401 Lincoln, Vancouver, $12,259; Harold Moffatt, Troutdale, Ore., $12,770; Tyee Construction Co., 1901 23rd Ave. S., Seattle, $15,494.
WB 3-12. Previous report 3-[illegible]

● IRRIGATION SYSTEM—Kennewick, Wash.

Bids will be opened 7:30 p.m., March 18, by Van E. Nutley, manager of Kennewick Irrigation District, 214 W. 1st Ave., Kennewick, for construction of an irrigation system for LID No. 11. Plans with above office.

Quantities: 5,200' excavation; install 3,200' of 4" and 1,500' of 8" concrete pipelines, gate valves, end valves; install 8 road crossings, 50' each; install one ditch crossing; install 28 service takeouts. DC 3-[illegible]

★RUNWAY EXTENSION— **Larson AFB, Wash.**

Award to N. Fiorito Co., 844 W. 48th, Seattle, $2,336,752, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of runway extension and allied facilities at Larson AFB, near Moses Lake; ENG-45-164-58-20.
SP 3-7. Previous report 3-1

▲SEAL COATING— **Larson AFB, Wash.**

Bids which were received February 24 have been rejected by U.S. Air Force, Larson AFB, for 403,338 sq. ft. seal coating taxiways and 60,000 sq. ft. painting taxiways at the base; Inv. No. 58-18.
SP 3-8. Previous report 2-22

APRON, TAXIWAYS, FUELING SYSTEM— **Larson AFB, Wash.**

(Estimated cost $1,000,000 to $5,000,000)

Bids will be opened on or about April 23 by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of an operational apron, apron access taxiways and hydrant fueling system at Larson AFB; ENG-45-164-58-25. Specifications with above office. $100 deposit. Bids on this project were previously to have been opened about March 6 but the invitation was subsequently cancelled. A pre-bid conference may be held.

Work will include removal of 40,000 sq. yd. asphaltic and portland cement pavement; 84,000 c.y. excavation; 33,000 c.y. sub-base and base course; new paving consisting of 6,250 ton asphaltic concrete; 37,000 c.y. portland cement concrete; 1,100 sq. yd. pavement marking; modification of existing aviation gas pumping and storage plants; construction of masonry jet-fuel transfer pumphouse and two masonry storage pumphouses; designing and construction of 55,000 bbl. steel bulk storage tank; construction of lateral control and dike and enclosure.

Modification of existing aviation gas bulk storage tank; construction of lateral control pits and hydrant outlets; construction of 10" and smaller fuel transfer piping; 8" and smaller water lines; storm sewer; 15" and smaller culverts; ditch and embankment; electrical distribution and modification of existing electrical and area lighting systems; other incidental electrical, mechanical, structural, paving and miscellaneous work. Paving and embedded hydrant to be completed by September 15; remainder by April 15, 1959.
SP 3-12. Previous report 2-5

★ELECTRICAL INSTALLATIONS— **Longview, Wash.**

Award to Scharf Electric, 512 Main, Longview, $18,954, by Port of Longview, Port Dock, Longview, for electrical work including maintaining electrical service for the Continental Grain Co. operation and for installation of additional wiring and electrical equipment in the new shipping gallery.
SP 3-12. Previous report 2-27

▲NAVIGATION AIDS— **Longview, Wash.**

Bids received by 13th Coast Guard District, 618 2nd Ave., Seattle, for construction and removing various aids to navigation at Cottonwood Island Channel, Columbia River, near Longview. Bids opened March 11.

Inv. No. FS-1715. ONLY BID: Palmberg Construction Co., Astoria, $7,850.
SP 3-12. Previous report 2-22

■PAVING ROAD, PARKING AREAS— **Marietta, Wash.**

Planholders announced for reshaping the existing roads and parking areas and placing approximately 5,300 sq. ft. asphalt concrete surfacing at U.S. Naval Radio Station (R), Marietta; Spec. No 12327/58. Bids will be opened 2 p.m., March 18, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle.

Planholders: Associated Sand and Gravel Co., 6300 Glenwood Ave., Everett; Wilder Construction Co., 1840 State St., Bellingham; Bellingham Paving Co., Foot of West, Bellingham; G.S. Electric Co., 3010 67th S.E., Mercer Island. SP 3-7. Previous report 2-25

●SURFACING, CURBS, GUTTERS— **McChord AFB, Wash.**

Bids will be opened 10 a.m., March 26, in the procurement office at McChord AFB, for surfacing and constructing concrete curbs and gutters on M St. at the base; Inv. No. 58-43. Specifications with above office.
SC 3-8

●RUNWAY OVERRUN— **McChord AFB, Wash.**

Bid opening extended from March 10 to 10:30 a.m., March 20, by U.S. Air Force, Procurement Office, McChord AFB, for constructing a runway overrun, including base course and two courses of asphalt surfacing, constructing an asphalt blast pad, and painting, at the base; Inv. No. 58-41. The March 10 opening on this project was previously advertised in PCD 3-8 together with another project involving apron improvements on which bids have been opened as originally scheduled.
SC 3-12

★TRANSMISSION, DISTRIBUTION LINES— **Okanogan, Wash.**

Award to R. C. Hughes Co., 2105 N. Airport Way, Spokane, $52,231, by Okanogan County PUD No. 1, W. L. Barbee, manager, Okanogan, for reconstruction of 17 mi. of distribution line in the Okanogan and Omak vicinity and construction of ½ mi. of 115-kv transmission line south of Okanogan.
SP 3-7. Previous report 3-1

■STATE HIGHWAY PROJECTS— **Olympia, Wash.**

Planholders announced on 10 highway construction projects which bids will be opened 10 a.m., March 18, by Washington State Highway Commission, Transportation Bldg., Olympia.

CEMENT CONCRETE PAVING, Washington Road to Hatch Road—Clearing, draining, grading, cement concrete paving on 3.626 mi. PSH No. 3, Spokane County; FAP No. F-037-2(5).

Planholders—Of Portland, Ore: American Bitumuls and Asphalt Co., Box 4062; J. N. Conley, 4332 N.E. Royal Court; Erland & Blickle, 8265 N. Borthwick; E. C. Hall Co., 11655 S.W. Barbur Blvd.; Natt McDougall Co., 824 Pittock Block; Fred H. Slate Co., Oregon Ltd., 7805 S.W. 40th. Of Seattle: Anderson & Stoen, 13501 Aurora; Morrison-Knudsen Co., Inc., 603 Hoge Bldg.; Northwestern Fence Co., 9757 Greenwood; Charles R. Watts Co., 4121 6th N.W.; Fiorito Bros., 1100 Leary Way; S. S. Mullen, Inc., Box 3886, Terminal Annex.

Other Cities: Peter Kiewit Sons Co., Box 1777, Vancouver; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Frank G. Baulne, Inc., Box 84, Yardley; James Crick & Sons, Box 102, Yardley; Alfred De Coria, Box 241, Auburn; N. A. Degerstrom Co., E. 15 32nd Ave.; Erickson Paving Co., 14446 Sunset Highway, Bellevue; F. R. Hewett Co., E. 5816, Spokane; Kiely Construction Co., Drawer 264, Butte, Mont.; Murphy Bros., Inc., 3728 E. Broadway, Spokane; Charles A. Power, Box 1220, Spokane; Sather & Sons, N. 1410 Howe, Yardley; C. E. Oneal, Inc., Box 270, Ellensburg; Clifton & Applegate, Box 8, Yardley; Goodfellow Bros., Inc., Box 1337, Wenatchee; Carbon Bros., N. 3430 Cook, Spokane; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Erwen Construction Co., 831 S. 4th, Pasco.

ASPHALTIC CONCRETE PAVING, ILLUMINATION, Stimson Road to Portage Creek—Surfacing, bituminous surface treatment, cement treated base, asphaltic concrete paving, installing illumination on 3.759 mi. PSH No. 1, Snohomish County; FAP No. I-001-4 (19).

Planholders—Of Seattle: Graybar Electric Co., Box 3727; McLaughlin, Inc., 5629 E. 61st; Washington Asphalt Co., 309 W. 39th; Northwestern Fence Co., 9757 Greenwood; Service Electric Co., Inc., 12304 32nd Ave. N.E. Other Cities: Acme Construction Co., Box 651, Redmond; Associated Sand and Gravel Co., 6300 Glenwood, Everett; Dorman Construction Co., 2818 E. 1st, Vancouver; G.S. Electric Co., 3010 67th S.E., Mercer Island.

S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; Wilder Construction Co., Inc., 140 State, Bellingham; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Lines Materials Co., Box 2077, Milwaukee, Wis.; Pacific Car and Foundry Co., 4th and Factory, Renton; Pieler Construction Co., 201 E. 8th, Port Angeles; J. D. Shotwell Co., 3113 S. Pine, Tacoma; J. N. Conley, Portland.

BRIDGE APPROACHES, Willapa River—Bituminous surfacing, asphaltic concrete paving on 1.172 mi. PSH No. 12, Pacific County; FAP No. F-006-2(4), Unit 2.

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; American Bitumuls and Asphalt Co., Box 4062, Portland; The United Contracting Co., Box 5075, Portland; Bocek Bros., Box 666, Hoquiam; Smith Bros., Inc., 3801 Fourth Plain Ave., Vancouver; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Strong and Macdonald, Inc., 4045 Ruston Way, Tacoma; A. H. Beaty, 417 Quincy, South Bend; Lige Dickson Co., 3315 S. Pine, Tacoma; W. F. Herrett Co., 1619 E. Lynn, Seattle; Interstate Asphalt Co., Inc., 905 E. Heron, Aberdeen; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; Pacific Sand and Gravel Co., Box 628, Centralia.

TWO BRIDGES, Raft River and Ten O'Clock Creek Bridges and Approaches—Clearing, draining, grading, surfacing, bituminous plant mix paving, constructing two reinforced concrete slab bridges on 0.341 mi. PSH No. 9, Grays Harbor County; FAP No. F-007-2(4).

Planholders—Of Seattle: John E. Alexander, Inc., Box 3583; Excavators, Inc., 5756 29th N.E.; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W.; West Coast Construction Co., Inc., 835 W. 48th; Troy T. Burnham Co., 18666 Beverly Road; Lee Construction Co., 3623 Colorado; Henry H. Hawkins, 16274 39th N.E.

Other Cities: Bocek Bros., Box 666, Hoquiam; Grays Harbor Construction Co., 412 S. Park, Aberdeen; The Hart Construction Co., 3536 E. 11th, Tacoma; S. D. Spencer & Son, 4614 N.E. 72nd Ave., Vancouver; Wilson & Simpson, Box 1070, Port Angeles; Interstate Asphalt Co., Inc., 905 E. Heron, Aberdeen; Owens Bros., Railroad and Oak, Port Angeles; Quigg Bros.-McDonald, Inc., 1500 Riverside, Hoquiam; Kathman-Construction Co., Inc., Box 555, Kenmore; Louis Elterich Co., Box 868, Port Angeles.

SIGNS, Trosper Road to Martin Way—Install signs on 6.457 mi. PSH No. 1, Thurston County; FAP No. I-001-2(58).

Planholders: California Metal Enameling Co., 6904 E. Slauson, Los Angeles, Calif.; Erickson Paving Co., 14446 Sunset Highway, Bellevue; C. W. Thomas & Co., Box 402, Winlock; Traffic Control Signs Co., 3011 S. Chandler, Tacoma; Charles R. Watts Co., 4211 6th N.W., Seattle; Reynolds Metals Co., 1844 Westlake N., Seattle; R. L. Moss & Co., Box 37, Zenith; Kaiser Aluminum and Chemical Sales, Inc., 302 W.E.A. Bldg., Seattle; Pacific Car and Foundry Co., 4th and Factory, Renton; J. D. Shotwell, 3113 S. Pine, Tacoma.

SIGNS, Moses Lake Bridge to SSH No. 11-G—Install signs on 4.261 mi. PSH No. 19, Grant County; FAP No. I-002-4(14).

Planholders: Erickson Paving Co., 14446 Sunset Highway, Bellevue; H. B. Nesheim, 6714 36th S.W., Seattle; Charles R. Watts Co., 4121 6th N.W., Seattle; Reynolds Metals Co., 1833 Westlake Ave. N., Seattle; R. L. Moss & Co., Box 37, Zenith; Russell-Gillett Co., Box G, Cle Elum; Snitily Bros. Construction Co., Box 671, Wenatchee.

PAVING, Minkler Lake Vicinity—Clearing, draining, grading, surfacing, constructing cement treated base, asphaltic concrete paving on 0.625 mi. SSH No. 17-A, Skagit County; a State Project.

Planholders: Associated Sand and Gravel Co., 6300 Glenwood, Everett; Excavators, Inc., 5756 29th N.E., Seattle; Robert L. Marsh Construction, 5002 38th S.W., Seattle; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Strong and Macdonald, Inc., 4045 Ruston Way, Tacoma; Wilder Construction Co., Inc., 1840 State, Bellingham; Bass Construction Co., Inc., 12526 Aurora, Seattle; J. M. Bruch Co., Route 3, Box 054, Port Angeles; B. P. Gerard, 5526 160th S.W., Edmonds; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Morrison-Cecotti, Box 388, Mount Vernon; I. M. Saimons, Route 1, Box 788, Alderwood Manor; L. D. Shilling Co., Inc., Box 1637, Loses Lake.

SURFACING, Belfair Northeast—Bituminous planimix paving, shoulder surfacing, bituminous surface treatment on 6.042 mi. PSH No. 21, Mason and Kitsap counties; a State Project.

Planholders: Acme Construction Co., Box 651, Redmond; Asphalt Paving and Engineer-

ing Co., Box 356, Tacoma; J. C. Compton Co., Box 86, McMinnville, Ore.; McLaughlin, Inc., 5629 E. 61st, Seattle; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Washington Asphalt Co., 309 W. 39th, Seattle; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; North Kitsap Gravel and Asphalt Co., Poulsbo; Pieler Construction Co., 201 E. 8th, Port Angeles; J. D. Shotwell Co., 3113 S. Pine, Tacoma.

SURFACING, Dodge to Kuhl Ridge Road, Et Al—Bituminous surface treatment on 30.96 mi. SH Nos. 3, 8, 11-A, 11-G in Garfield, Franklin and Benton counties; a State Project.

Planholders: Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, Ore.; J. C. Compton Co., Box 86, McMinnville, Ore.; Dorman Construction Co., 2818 E. 1st, Vancouver; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Standard Asphalt Paving Co., N. 119 Spokane; N. G. Johanson, E. 1828 Trent, Spokane; McAtee & Heathe, Inc., Box 4187, Station B, Spokane.

STOCKPILING, Clallam Bay Vicinity — Stockpiling mineral aggregates, crushed surfacing, fine screenings on SSH No. 9-A, Clallam County. Involves about 12,400 ton crushed materials.

Planholders: Acme Construction Co., Box 651, Redmond; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Pieler Construction Co., 201 8th, Port Angeles; Strong and Macdonald, Inc., 4045 Ruston Way, Tacoma; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle. DM 3-11. Previous report 2-27

★TREATMENT PLANT ADDITION— Omak, Wash.

Award announced by City Council, City Hall, Omak, for contruction of an addition to the sewage treatment plant at Omak. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. Two bids were submitted at the March 3 opening. AWARD: William Hilton, c/o Gray & Osborne, engineers, $17,861. ONLY OTHER BID: Cusick's, Inc., Box 652, Wenatchee, $21,586.

IG 3-7. Previous report 2-18

★CABLE TRENCH— Pacific Beach, Wash.

Award to George C. Martinson, 1912 W. 6th St., Aberdeen, $58,921, by 13th Naval District, Bldg. 250, U.S. Naval Station, Seattle, for installation of cables by the Government, providing cable vaults, installing grounding cables and providing sodding and seeding at the U.S. Naval Facility, Pacific Beach; Spec. No. 12303/57.

SP 3-8. Previous report 3-1

▲SEWER SYSTEM EXTENSION— Pacific Beach, Wash.

Bids received by Grays Harbor County Commissioners, Courthouse, Montesano, for construction of extensions to the sewer system including 8" interceptor sewer, lift station, 6" pressure line and treatment facilities for Sewer Improvement District No. 5 at Pacific Beach. Plans by Gibbs & Olson, consulting engineers, 1056 Chehalis Ave., Chehalis. Bids opened March 10.

Five bids received. TWO LOW BIDS: Merlin D. Lowe, 1608 Burcham, Kelso, $55,793; West Coast Construction Co., 835 W. 48th, Seattle, $58,606. HI BID: Andy Johnson, Scammel and Cherry, Aberdeen, $63,322.

SP 3-11. Previous report 3-7

★TREATMENT PLANT ADDITIONS— Pasco, Wash.

Award to Lee Hoffman, Box 37, Beaverton, $472,877, by City Council, City Hall, Pasco, for construction of additions to the water treatment plant at Pasco. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis.

DC 3-8. Previous report 3-7

★SWAMP ANCHORS— Raymond, Wash.

Award to Graybar Electric Co., 809 N.W. Flanders St., Portland, $1,124, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering 75 screw type swamp anchors, fob Raymond; Inv. No. 3646. Total of eight bids were received February 20.

WB 3-7. Previous report 2-8

★TEST WELLS— Richland, Wash.

Award to Artesian Well and Pump Co., Highway 15, Boise, Idaho, $34,311, by Atomic Energy Commission, Box 550, Richland, for drilling, casing and taking samples of an estimated nine wells, ranging from 265' to 800' in depth, at two Crib sites, adjacent to the 200-East Area at Hanford Works.

SP 3-7. Previous report 2-28

★ROCK— Seattle, Wash.

Award to Black River Quarry, Inc., 6808 S. 140th, Seattle, $1.50 for big rock and $.90 for small rock, by King County Commissioners, 402 County City Bldg., Seattle, for rock requirements for year 1958. Bids opened February 24.

SP 3-7. Previous report 2-8

▲CEMENT CONCRETE PAVING— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for cement concrete paving in alley, Block 19, Yesler's Second Addition, Seattle; LID No. 6159. Bids opened March 5.

BIDS: Toney Romano, Inc., 1823 Dearborn, Seattle, $15,663; R. L. Moss & Co., Box 37, Zenith, $17,223; Seattle Contracting Co., 101 Nickerson, Seattle, $19,647.

SP 3-7. Previous report 3-4

▲INTERCEPTOR SEWER— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing approximately 15,155' of 24" to 54" reinforced concrete pipe sewer, 600' of 27" and 30" force main, and miscellaneous appurtenances, in the Lincoln Park area between W. Barton and W. Alaska St., Seattle; Ord. No. 86138. Bids opened March 5.

Eight bids received. LOW BIDS: S. S. Mullen, Inc., 646 Holgate, $575,288; Pacific Mechanical Constructors, Inc., Lloyd Bldg., $584,953; Frank Coluccio Construction Co., 7778 Seward Park Ave., $616,214. HI BID: National Construction Co., 153 S. 106th, $892,949. Of Seattle.

SP 3-7. Previous report 2-22

●POWER TUNNEL GROUTING— Seattle, Wash.

Bids will be opened 2 p.m., March 19, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for grouting 1,800' of the Diablo power tunnel in Skagit Project before July 12 and for painting a surge tank and constructing a small sluice gate; Ord. No. 84114. Specifications with Skagit Project Engineering Office of the City Light, 619 United Pacific Bldg., Seattle. $15 deposit. SC 3-7

★TEST BORING— Seattle, Wash.

Award to Western Drilling and Equipment Co., 1545 Bay St., Tacoma, $2,927, by Board of Public Works, 512 County City Bldg., Seattle, for 400' of sub-surface test borings at ten sites in West Seattle, on Sunset Ave. and California Place between West Seattle St. and Harbor Ave. S.W., Seattle; Ord. No. 86138. SP 3-7. Previous report 2-27

SEWERS (All Contracts)— Seattle, Wash.

Award of contracts is pending financial arrangements which should be concluded later this month by Southwest Suburban Sewer District, 874 S.W. 136th, Seattle, for the second phase of the ULID No. 2 sewer program, involving Contracts K, L, M, N and lift station. According to the district, all bids which were received February 27 (Contracts K and L) and February 24 (Contracts M, N and lift station) are considered good and contracts will probably be awarded the low bidder on each contract.

Low bids are as follows—CONTRACT K: Matt Malaspina & Co., 1901 23rd Ave. S., $234,882. CONTRACT L: Lario Libri, 5960 Empire Way, $220,260. CONTRACT M: Murphy Bros., Box 2193, $315,360. CONTRACT N: Harold Kaeser Co., 3629 34th S., $339,126. LIFT STATION: G. R. Leischner Construction Co., 1201 W. 92nd, $38,974. All of Seattle.

SP 3-8. Previous reports 2-26 and 3-1

■GRADING, SURFACING— Seattle, Wash.

Planholders announced for clearing, draining, grading and light bituminous surfacing 1.5 mi. of Meridian Ave. (N. 175th St. to 205th St.), King County. Bids will be opened 9:30 a.m., March 24, by King County Commissioners, 402 County City Bldg., Seattle.

Planholders: Bay Construction Co., 17[illegible] Airport Way; Anderson & Johnson, 11[illegible] Roosevelt Way; Diesel Oil Sales, 2155 North lake Way; Associated Sand and Gravel Co., 6200 Glenwood Ave., Everett; Lake City Gravel and Materials, Inc., 10728 Bothell Way; Toney Romano, Inc., 1823 Dearborn; Bel Construction Co., 12526 Aurora; P. J. Anderson & Sons, 13501 Aurora; I. M. Salmon, Route 1, Box 938, Alderwood Manor. Of Seattle unless noted.

SP 3-8. Previous report 2-[illegible]

●CAB AND CHASSIS, TRUCKS— Seattle, Wash.

Bids will be opened 10 a.m., March 20, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one new and latest model 1958 ½-ton cab and chassis, and two 1½- to 2-ton flatbed trucks with hydraulic hoists. Specifications with above office. Separate bids for cab and trucks. SC 3-[illegible]

●CRUSHED ROCK— Seattle, Wash.

Bids will be opened 9:30 a.m., March 1[illegible] by King County Commissioners, 402 County City Bldg., Seattle, for furnishing about 8[illegible] ton ¾" minus and 200 ton 1½" minus crushed quarry rock. Specifications available in room 606, County City Bldg., Seattle. Bidders are to state time of availability.

SC 3-[illegible]

★WATER LINES, SEWAGE DISPOSAL SYSTEMS— Seattle, Wash.

Awards to Valley Construction Co., Everson, $3,945 (Birch Bay), Ted Buchanan, Sedro Woolley, $2,224 (Bayview) and Tidewater Construction Co., Bremerton, $9,063 (Wenberg), by Washington Parks and Recreation Commission, 100 Dexter Ave., Seattle, for water line at Birch Bay State Park, sewage disposal system and leach pit at Bayview State Park and sewage disposal system at Wenberg State Park.

SP 3-8. Previous report 2-[illegible]

▲WATERMAIN— Seattle, Wash.

Nine bids received by King County Water District No. 49, in the office of Allen Hitchings, engineer, 308 Columbia, Seattle, for furnishing and installing a feeder main on 8th Ave. S.W. from S.W. 46th St. to S.W. 150th in Seattle. Bids opened March [illegible] APPARENT LOW BID: Shoreline Construction Co., 12519 15th N.E., Seattle, $34,3[illegible] (basic). HI BID: West Coast Construction Co., 835 W. 48th, Seattle, $36,924.

SP 3-8. Previous report 3-[illegible]

●PAINTING LOCK GUARD GATES— Seattle, Wash.

Bid opening established as 2:30 p.m., March 25, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for painting large lock guard gates, Hiram M. Chittenden Locks, Lake Washington Ship Canal, Seattle; CIVENG-45-108-58-29. Specifications with above office.

The guard gates will be made available to the contractor in a floating position on the inside of east guide pier of Hiram M. Chittenden Locks. The gates will have to be towed to yard for drydocking, cleaning and painting of interior and exterior of the two large lock guard gates.

SP 3-11. Previous report 2-27

●CHLORINATING WORKS—Seattle, Wash.

Bids will be opened 2 p.m., March 19, by Board of Public Works, 512 County City Bldg., Seattle, for construction of chlorinating works at Volunteer Park and Magnolia Manor reservoirs. Plans with water department, 323 County City Bldg., $25 deposit. Bid bond 5%. DC 3-11

▲WOOD TANK— Seattle, Wash.

Bids received by 13th Coast Guard District, 618 2nd Ave., Seattle, for furnishing 10,000 gal. tank, Douglas Fir, wood stave with single conical cover, knocked down with foundation members all in. Delivery to Coast Guard Base at 27th W. and Commodore Way, Seattle, for transshipment to Burrows

Island Light Station. Bids opened March 10. Advertisement for bids under Inv. No. FS-1714. BIDS: Federal Pipe and Tank Co., 6831 E. Marginal Way, Seattle, $944 (item 1), $962 (item 2); Brooks Lumber Co., Orleans and Kentucky, Bellingham, $970, $985; National Tank and Pipe Co., 2301 N. Columbia Blvd., Portland, $1,067, $1,083.
SP 3-11. Previous report 2-22

★**STEAM GENERATING PLANT—** **Seattle, Wash.**

Award to Bumstead-Woolford, 1411 Fourth Avenue Bldg., Seattle, $489,327, by Board of Regents, Administration Bldg., University of Washington, Seattle, for furnishing and erecting a new steam generating plant capacity of 100,000 lb. per hour (using pulverized coal) or 130,000 lb. per hour (using natural gas). Plans by Boullion, Griffith & Christofferson, consulting engineers, 1411 Fourth Avenue Bldg., Seattle.
SP 3-11. Previous report 2-12

★**CYCLONE FENCE—** **Seattle, Wash.**

Award to Cyclone Fence Department, American Steel and Wire Division, U.S. Steel Corp., 1150 Fairview Ave. N., Seattle, $5,798, by King County Commissioners, 402 County City Bldg., Seattle, for construction of approximately 2,500' of cyclone fence. Bids opened March 3.
SP 3-12. Previous report 2-22

▲**GRADING—** **South Bend, Wash.**

Seven bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for grading the Willapa River Substation site on Pacific County Road, about ½ mi. south and east of the intersection of this road and U.S. Highway No. 101 and the east city limits of South Bend, Pacific County, Wash.; Inv. No. 8663. LOW BIDS: Bocek Bros., Box 666, Hoquiam, $7,928; A. H. Beaty Construction Co., 417 Quincy St., South Bend, $8,297. HI BID: L. L. Dutton, Olympia, $17,962. Bids opened March 10.
WB 3-12. Previous report 3-6

●**RETAINING WALL—** **Spokane, Wash.**

Bids will be opened 10 a.m., March 27, by Washington State Highway Commission at the office of D. E. Stein, district engineer, N 2820 Mayfair Street, Spokane, for repairing an existing retaining wall on PSH No. 3, Whitman County, in Town of Palouse; a State Project. Plans with above office. $2 charge. Certified check, cashier's check or bid bond 5%.

Quantities: 35 c.y. structure excavation; 25 c.y. concrete, class B; 250 lb. steel reinforcing bars; 57' remove and replace pipe handrail; lump sum for removing portion of concrete retaining wall. DM 3-7

●**SPRINKLER SYSTEM—** **Spokane, Wash.**

Bids will be opened 10 a.m., March 31, by W. B. Peck, secretary, Park Board, City Hall, Spokane, for construction and installation of a complete automatic sprinkler system for the approaches to the Maple Street Bridge in Spokane. Specifications with Spokane Park Board. $5 deposit. Certified check, cashier's check or bid bond 5%. Project involves piping, fittings, drain valves, drain, boxes, control valves, sprinkler heads, automatic control units, electrical services, plastic tubing, manholes, excavation, backfill. DC 3-11

★**PRE-CAST CONCRETE BRIDGE—** **Stevenson, Wash.**

Award to Workman & Wilson, Route 1, Box 30, Canby, Ore., $77,949, by Board of County Commissioners, Skamania County, John R. McDonald, chairman, Courthouse, Stevenson, for construction of the 190' three-span, pre-cast, pre-stressed concrete bridge over Northwestern Lake near the White Salmon River. Plans by N. W. Haner & Associates, consulting engineers, 220 S.W. Alder St., Portland. Eight bids were received March 10. OTHER BIDS: United General Constructors, Inc., P.O. Box 397, Seattle, $82,490; C. M. Corkum, 2630 S.W. 2nd Ave., Portland, $82,925; Teller Construction Co., 845 N. Graham, Portland, $83,971; John L. Jersey, 3647 S.E. 34th Ave., Portland, $91,534; Marshall Construction Co., 40 W. Ridgeway, Hermiston, Ore., $91,817; A. R. Nieman, 2001 Main St., Vancouver, $96,984; Schrader Construction Co., 3030 S.E. Hawthorne Blvd., Portland, $114,236.
WB 3-12. Previous report 3-6

●**DOCK—** **Tacoma, Wash.**

Bids to be opened 3 p.m., March 19, by Port of Tacoma at its office, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, for modification of a 160' section of existing dock on Pier 2 to provide a railroad crossover between the two railroad tracks on the rock. Plans with Port Commission office. Certified check or bid bond 5%. Secretary of the Port is M. S. Erdahl. DC 3-7

★**GRADING, PAVING—** **Tacoma, Wash.**

Award to Woodworth & Co., Inc., 1200 E. D St., Tacoma, $12,398, by City Council, City Hall, Tacoma, for regrading N. 21st and I St. from N. 13th St. to Steele St. and placing thereon asphaltic concrete pavement and concrete curb and gutters; W.O. No. 7648. Bids opened February 10.
SP 3-11. Previous report 2-5

★**FENCING—** **Tacoma, Wash.**

Award to United States Steel Corp., American Steel and Wire Division, Cyclone Fence Department, 1150 Fairview Ave. N., Seattle, $14,184, by Tacoma School District No. 10, Administration Bldg., Tacoma, for chain link fencing at Bryant, Fawcett, Fern Hill, Manitou and Sheridan elementary schools in Tacoma. SP 3-11. Previous report 3-1

★**BULKHEADING—** **Tacoma, Wash.**

Award to Industrial Engineers and Contractors, Inc., 711 Middle Waterway, Tacoma, $31,170, by Port of Tacoma, Port of Tacoma Terminal, Tacoma, for bulkheading the southern end of the Sitcum Waterway.
SP 3-11. Previous report 2-22

★**FORK LIFT TRUCK—** **Tacoma, Wash.**

Award to Preston Faller Co., 1921 Minor Ave., Seattle, $6,642, by Port of Tacoma, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for furnishing one electric powered fork lift truck of 2,000-lb. capacity at 24" center of gravity. Bids opened February 10. SP 3-12. Previous report 2-5

●**BITUMINOUS DISTRIBUTOR—** **Tacoma, Wash.**

Bids will be opened 11 a.m., March 17, by David D. Rowlands, city clerk, 305 City Hall, Tacoma, for furnishing one pressure bituminous distributor. Specifications with above office. Certified check 5%. DC 3-12

●**WATER MAINS—** **Tacoma, Wash.**

Bids will be received until 11 a.m., March 24 in the office of the city clerk, 305 City Hall, Tacoma on two separate projects: 1—furnish, install 4", 6", 8", 12" cast iron water mains in LID 5218; 2—furnish, install 6" cast iron water main in LID 5296. Specifications with Department of Public Utilities, purchasing office, second floor of Utilities Bldg., 3628 S. 35th or in city clerk's office. Certified check 5%.
DC 3-12

●**SIDEWALKS—** **Tacoma, Wash.**

Bids will be received until 11 a.m., March 17 in the office of the city clerk, 305 City Hall, Tacoma, for replacing defective sidewalks and constructing new sidewalks in various locations, Units 1 through 199 and Improvements 1 through 10. Specifications with above office. Certified check 5%.
DC 3-12

★**BANK PROTECTION—** **The Dalles Dam, Wash.**

Award to E. A. Whitley, 2401 N. Division St., Spokane, $57,863, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of bank protection work consisting of a concrete wall on the north shore of The Dalles Dam on The Columbia River; CIVENG-35-026-58-110.
WB 3-8. Previous report 2-22

★**MOORING BASIN—** **Tokeland, Wash.**

Award announced by Port of Willapa Harbor Commission, James Bean, manager, Raymond, for construction of a mooring basin at Tokeland. Plans by William J. Murphy, Jr., engineer, Aberdeen. Bids opened February 27. AWARD: Quigg Bros.-McDonald Co., 1500 Riverside Ave., Hoquiam, $50,906. OTHER BIDS: Kirkman & Stand, Box 833, Seaview, $57,940; Grays Harbor Construction Co., 412 S. Park, Aberdeen, $66,928.
SP 3-7. Previous report 2-7

★**ELECTRICAL TEST EQUIPMENT—** **Vancouver, Wash.**

Awards by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering electrical test equipment fob Eavan Spur, Vancouver; Inv. No. 8631. AWARDS: General Electric Co., Portland, (Item 1) $778; The Instrument Lab, Portland, (2) $2,360; Electrical and Physical Instrument Corp., Long Island City, N.Y., $513; Hewlitt-Packard Co., Palo Alto, $690; Budelman Radio Corp., Stamford, Conn., (5) $550; Motorola Communications & Electronics, Inc., Chicago, (6 and 8) $968. Bids opened February 7. WB 3-7. Previous report 1-17

▲**STONE SURFACING, MINERAL AGGREGATE—** **Vancouver, Wash.**

The only bid received has been rejected by Clark County Commissioners, Cecil D. Kinder, engineer, Courthouse, Vancouver, for furnishing 24,500 c.y. crushed stone surfacing and mineral aggregate at three locations in Clark County. The only bid opened February 24 was that of Hardisty Construction Co., Vancouver, $53,950. The county will probably continue to crush rock at its Ridgefield and Daybreak sites, but may re-invite bids for rock in the Salmon Creek area. WB 3-6. Previous report 2-15

●**REROOFING DOCK—** **Vancouver, Wash.**

Bids will be opened 2:30 p.m., P.S.T., March 25, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for reroofing the loading dock of the BPA east warehouse on the east Vancouver spur of the Maritime Administration Vancouver Shipyard, about 1½ mi. east of Vancouver, Wash.; Inv. No. 8672. Plans call for mopping on 2-ply built-up roof. Completion time 120 calendar days. DM 3-8

▲**STONE SURFACING, MINERAL AGGREGATE—** **Vancouver, Wash.**

Only bid submitted by Hardisty Construction Co., Medical Arts Bldg., Vancouver, $53,950, has been rejected by Clark County Commissioners, Courthouse, Vancouver, for furnishing 24,500 c.y. crushed stone surfacing and mineral aggregate at three locations in Clark County. Bid opening was February 24. Bids will probably be readvertised for furnishing rock in the Salmon Creek area, while the county will continue to crush rock at the Ridgefield and Daybreak sites.
SC 3-8. Previous report 2-15

★**GRADING, DRAINING, SURFACING—** **Waterville, Wash.**

Award to Louis Shafer, Quincy, $26,025, by Douglas County Commissioners, Courthouse, Waterville, for grading, draining and crushed rock surfacing of 4.5 mi. of Tichenal Canyon Road. SP 3-7. Previous report 2-26

WELLS HYDROELECTRIC PROJECT— **Wenatchee, Wash.**
(Estimated cost $166,000,000)

Bechtel Corp., 220 Bush St., San Francisco, Calif., has been retained by Douglas County Public Utility District, George Hamilton, president, 20 N. Main, East Wenatchee, to furnish professional engineering services to determine the economic feasibility of the selected site, near Azwell, and to obtain a preliminary estimate of project costs for the Wells hydroelectric project on the Columbia River, 45 mi. about Wenatchee between Rocky Reach and Chief Joseph dams. The utility district has obtained financing for engineering the proposed dam and has consummated an agreement with Puget Sound Power and Light Co., whereby the firm will advance money for engineering expenses on a feasibility basis in return for an option on at least ⅓ of the power output of the 402,000-kw

project. Preliminary engineering was performed by Kaiser Engineers, 1924 Broadway, Oakland, Calif.

Work at the site will include extensive drilling, testing of pump holes, test retrenching borrow and aggregate material exploration and geological investigation and mapping. This stage does not include any investigations of relocations of rail and public roads, any remedial works which may be required from raising the pool, model studies or reservoir regulations studies, nor land acquisition and clearing. Work is directed towards determining the most feasible and economical development for the major structures of dam and spillway, powerhouse and dikes.

S C3-8. Previous report 8-28

● CONCRETE RETAINING WALL— Wenatchee, Wash.

Bids will be opened 11 a.m., March 17, by Chelan County Commissioners, Courthouse, Wenatchee, for constructing a reinforced concrete crib retaining wall and performing other incidental work adjacent to the Lower Sunnyslope Road, CRP No. 203. Specifications with county engineer, above address. $2 deposit. Bid opening was previously scheduled for March 3.

SC 3-11. Previous report 3-1

● DREDGING— Willapa Bay, Wash.

Bids will be opened 2:30 p.m., P.S.T., March 18, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for dredging about 1,244,800 c.y. material, Willapa River and Harbor, Willapa Bay, Wash.; CIVENG-45-108-58-25. Plans with above office. Work will be awarded as whole to one bidder on Sched. C or to separate bidders on Scheds. A and B. Completion times, 510 days, Sched. A; 180 days, Sched. B; 300 days, Sched C. Quantities: SCHED. A—Willapa River and Bay Center channel, 583,500 c.y. com. dredging; 5,800 c.y. rock excavation. SCHED. B—Toke Point and Nahcotta Mooring basins, 661,300 c.y. com. dredging. SCHED. C—Willapa River, Bay Center, Toke Point, Nahcotta, 1,244,800 c.y. com. dredging, 5,800 c.y. rock excavation.

DM 3-8. Previous report 2-4

OVERPASSES— Yakima, Wash.

Preliminary surveys are underway in Yakima for construction of two overpasses, one on C St. and one on Lenox Ave., in Yakima. Application is being made for federal funds. IG 3-7

● SURFACING, CURB, GUTTER— Yakima, Wash.

Bids will be opened 10 a.m., March 26, by City Council, City Hall, Yakima, for curb and gutter and surfacing in LID No. 862, Yakima. Plans with Sam Hobbs, city engineer, above address.

Quantities: 9,200 c.y. common excavation; 175 c.y. trench excavation; 8,350′ concrete curb and gutter; 3,600 ton crushed stone, base course; 1,450 ton same, top course; 2,270 ton asphaltic concrete; 12 surface inlets; 600′ of 8" concrete drain pipe; 860 lb. reinforcing steel; 4 c.y. formed concrete. IG 3-12

IDAHO

PLANTMIX PAVING— Boise, Idaho
(Estimated cost $40,000)

Preliminary plans are underway by J. L. Morris, city engineer, City Hall, Boise, for plantmix paving on 16 blocks in LID 58-A. Preparation work will be handled by city crews, paving and concrete work will be put under contract. The project involves widening streets from 30′ to 40′, placing penetration plantmix 85-100, constructing rolled curb, standard curb and gutter, irrigation structures, drainage structures. DM 3-5

RETAINING WALLS— Boise, Idaho
(Estimated cost $45,000)

Reinforced concrete retaining walls for bridge and canal at Shoshone and Rosehill streets is planned for future construction by the city, according to J. L. Morris, city engineer, City Hall, Boise. Total length of the walls would be 55′. DM 3-6

SEWER SYSTEM, TREATMENT FACILITIES— Boise, Idaho
(Estimated cost $3,468,000)

The formation of a Boise Bench sewer district was approved by voters in a special election held February 25 by City Council, City Hall, Boise, paving the way for a bond election to provide funds for construction of trunk, main and lateral sewer lines and provision of sewage treatment facilities in the district. SC 3-7

● SEWER— Boise, Idaho

Bids will be opened 2 p.m., March 21, by R. E. Edlefsen, city purchasing agent, City Hall, Boise, for construction of 6,725′ of 6" to 12" sewer pipe; 27 manholes; 75 sewer service connections, stubbed from the sewer lateral to the property lines in LID 135, Mesa Vista Sewer District. Plans with office of Public Works Commissioner, City Hall. $10 deposit. Certified check or bid bond 5%. DC 3-8

● STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., March 25, by Department of Highways, 603 Main St., Boise, for the following stockpile projects. Specifications with above office and with the district engineer at Coeur d'Alene. $2 charge.

STOCKPILES, Bonner and Kootenai Counties—Furnishing crushed gravel and cover coat material in various stockpiles in District No. 5, Idaho Stockpile Proj. Nos. 249, 252 and 253.

Quantities—PROJ. No. 249 (Athol): 10,000 ton crushed gravel surfacing; 10,000 ton cover coat material. PROJ. No. 252 (Blanchard): 5,000 ton cover coat material. PROJ. No. 253 (Ford): 5,000 ton cover coat material. SP 3-12

ROADMIX PAVING— Caldwell, Idaho
(Estimated cost $38,000)

Preliminary plans are being prepared by Melvin G. Lewis, city engineer, City Hall, Caldwell, for roadmix paving, curb and gutter construction in the proposed LID 45. Plans call for 16,400 sq. yd. of roadmix and 9,700′ of curbing. DM 3-5

RESERVOIR ENLARGEMENT—Carey, Idaho
(Estimated cost $2,250,000)

Voters in Carey have approved a project for enlarging the Carey Reservoir on the Little Wood River in Idaho. The election was held March 4. The State Fish and Game Department will pay $2,212 of construction costs. SC 3-11

■ PUMPHOUSE, WATER MAIN— Chubbuck, Idaho

Planholders announced for furnishing and installing improvements to the water system at Chubbuck, on which bids will be opened 8 p.m., March 18, by John Valenty, chairman of village board of trustees, Village Hall, Chubbuck. Specifications by Hamilton & Voeller, consulting engineers, 110 N. 2nd Ave., Pocatello.

Planholders: Killian Plumbing and Heating, 1655 N. 2nd Ave., Pocatello; Mel Brown Co., Box 884, Idaho Falls; Intermountain Co., Box 1869, Boise; Rupert Sorenson, 204 Hyde Ave., Pocatello; Phillips Construction Co., 1058 Rose Ave., Idaho Falls; Universal Pipeline, 1937 S. 5th Ave., Pocatello; Bonneville Construction Co., 527 W. 20th, Idaho Falls; George Hartwell, Box 385, Idaho Falls. SP 3-12. Previous report 3-5

▲ SEWERS, WATER MAINS, WELL DRILLING— Cottonwood, Idaho

Bids received by Village Clerk, Village Hall, Cottonwood, for additions to the water system (Sched. A) and sewer system (Sched. B) and for drilling a 900′ well at Cottonwood. Plans by W. E. Thompson, consulting engineers, N. 915 Bowdish Road, Spokane. Four bids on Sched. A, four on Sched. B and two on well drilling were received for the March 3 opening. SCHED. A and B—TWO LOW BIDS: Kreager Construction Co., N. 5103 Driscoll Blvd., Spokane, $23,119 (Sched. A), $11,344 (Sched. B), $34,464 (total); H. E. Schimmels, E. 8423 Sprague, Spokane, $22,539, $12,659, $35,199. HI BID: Intermountain Co., Box 1652, Boise, $24,913, $15,445, $40,358. WELL DRILLING—ONLY BIDS: Oliver F. Zinkgraf, E. 1606 Sharp, Spokane, $18,119 (alt. A, 14" uncased well), $15,898 (alt. B, 12" well); R. J. Strasser Drilling Co., 8110 S.E. Sunst Lane, Portland, Ore., $21,046, $17,648. LL 3-7. Previous report 2-25

★ GENERATOR INSTALLATION— Cottonwood AF Station, Idaho

Award to Power City Electric, N. 928 Howard St., Spokane, $17,630, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for installation of two 200-kw Government furnished diesel generators and accessories, and re-energizing five substations at Cottonwood Air Force Station. ENG-45-108-58-51.

SP 3-11. Previous report 2-28

SEWAGE SYSTEM, TREATMENT FACILITIES— Deary, Idaho
(Estimated cost $76,000)

The village council of Deary has retained Walter L. Woodward, consulting engineer, Empire State Bldg., Spokane, to prepare preliminary plans for a sewage system and treatment facilities. The FHHA has approved a loan of $1,400 to help finance the planning. DC 3-7

EARTHFILL DAM— Georgetown, Idaho
(Estimated cost $250,000)

Construction may start soon on a 100′ high earthfill dam in a dry canyon northeast of Georgetown, Bear Lake County, for Central Farmers Fertilizer Co., Charles M. Miller, director of manufacturing, Montpelier, Idaho. Preliminary plans have been approved by Mark R. Kulp, state Bureau of Reclamation engineer, Box 937, Fairgrounds, Boise. IG 3-6. Previous report 3-4

EARTHFILL DAM— Gooding County, Idaho

All bids rejected and will be readvertised soon by Arthur Warren, Commissioner of Public Works, 432 Capitol Bldg., Boise, for construction of an earthfill dam, Dog Creek Project, Gooding County, Idaho, for Idaho Fish and Game Department, 518 Front St., Boise. When bids were opened February 27, a low bid of $37,328 was received by Rex Johnson Excavation Co., Addison Ave. W., Twin Falls. SP 3-12. Previous report 3-11

▲ STOCKPILING AGGREGATES— Idaho Falls, Idaho

Two bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for construction and stockpiling of aggregates at the Central Facilities Area, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-942. Bids opened March 7. ONLY BIDS: Idaho Rock, Inc., Box 1092, Twin Falls, $184,640; Robert V. Burggraf Co., Box 397, Idaho Falls, $197,950. AEC estimate, $70,000.

SP 3-11. Previous report 2-28

● CONCRETE BRIDGE—Idaho Falls, Idaho
(Estimate cost $40,000)

Bids to be opened 2 p.m., March 24, by Claud B. Black, city engineer, City Hall, Idaho Falls, for construction of a box culvert type bridge to span the Idaho Canal at Boulevard and 17th, Idaho Falls. Plans with city engineer. Specifications call for 250′ long, 16′ wide, 6′ deep of reinforced concrete bridge, extending in a semi-circle from east side of Boulevard to south side of 17th, handrails along east side of Boulevard.

DC 3-11

■ ELECTRICAL SUBSTATION— Idaho Falls, Idaho

Additional planholders announced for construction of a 132/13.8-kv electrical substation, including a control building ,two transformers, two sections of transmission line and temporary office buildings, at the EBR 2 area of the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-922. Bids will be opened 3 p.m., March 19, by Atomic Energy Commission, Box 1221, Idaho Falls.

Additional planholders: Price-McNemar Construction Co., 13726 Saticoy St., Los Angeles, Calif.; Tullar Power Construction Co., Box 4051, Seattle; Henkels & McCoy Contractors, 610014 N. 20th St., Philadelphia, Pa.; Nager Electric Co., Inc., 420-428 Broadway, Brooklyn, N.Y.; Creamer & Dunlap, Inc., Box 2265, Tulsa, Okla.; Duke's Electric,

Inc., Bldg. 35, Pasco Airport, Pasco; Witzig Construction Co., Box 292, Corvallis, Ore.; Standard Transformer Co., Warren, Ohio; Fischbach & Moore, 1740 Broadway, Denver, Colo.; Gordon Hansen, Box 1485, Missoula, Mont. SP 3-12. Previous report 2-18

▲SEWAGE TREATMENT PLANT— Lewiston, Idaho

Eighteen bids received by City Council, City Hall, Lewiston, for construction of primary sewage treatment plant and pumping station (Contract No. 1), a 36" Clearwater River crossing (Contract No. 2) and interceptor sewers (Contract No. 3) in Lewiston. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. Bids opened March 10. LOW BIDS—CONTRACT 1: Henry George & Sons and Durham Contracting Co., Box 42, Moscow, $343,406 (joint venture). CONTRACT 2: M. F. Castle Co., 10503 Division, Spokane, $88,819. CONTRACT 3: M. F. Castle Co., Spokane, $296,575.
DR 3-12. Previous report 3-6

●PIPE, VALVES— Moscow, Idaho

Bids will be opened March 18 by L. C. Warner, purchasing agent, 203 Administration Bldg., University of Idaho, Moscow, for plumbing supplies consisting of 14 types of items including 6" pipe, cast iron flanges and black cast iron valves. Specifications with above office. MH 3-11

RAILROAD TRACKAGE— Mountain Home AFB, Idaho

Bids will be opened on or about April 17 by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of approximately 1,960' new railroad trackage, removal of 1,720' trackage and miscellaneous work at Mountain Home AFB, Elmore County, Idaho; ENG-45-164-58-41. Specifications with above office. Completion time 210 calendar days.

Work as follows: Construction of 1,960' new trackage, including one turnout, one crossing and one earthfill car bumper; removal of 1,720' existing trackage; construction of one reinforced concrete street crossing; installation of approximately 100' protection sleeves around utility pipes where utilities cross under new trackage; miscellaneous items of work such as hose racks, railroad crossing signs, and modifications to existing utilities. SP 3-7

SEWAGE PLANT, SEWERS— Payette, Idaho

(Estimated cost $416,000)

Voters have approved a proposed sewage disposal plant and sewer system for the city of Payette. Of the estimated $416,000 cost, about $76,000 will be contributed by the federal government.
DC 3-12. Previous report 2-14

SEWAGE DISPOSAL PLANT— Twin Falls, Idaho

Bond election originally scheduled for April for the proposed sewage disposal plant may not be held until May. Selection of a fiscal agent and an outside engineer will delay election. City engineer is Norman Crosley, Box 867, Twin Falls.
DC 3-7. Previous report 1-4

SUBSTATION— Wallace, Idaho

(Estimated cost $1,100,000)

Plans announced by Washington Water Power Co., Virgil Thompson, local representative, Wallace, for construction of a substation at Wallace in connection with the Noxon Rapids Dam in western Montana. Home office of Washington Water Power is at 825 W. Trent in Spokane. IG 3-7

MONTANA

★PATCHING MACHINE—Anaconda, Mont.

Award to Pioneer Equipment and Supply Co., 624 S. Dakota, Butte, $1,650, by City Council, City Hall, Anaconda, for furnishing a heated patching machine for repairing oiled and paved streets. ONLY OTHER BID: Westmont Tractor and Equipment Co., 55 3rd E.N., Kalispell, $2,340. SC 3-12

●BUTTERFLY VALVES— Billings, Mont.

Bids will be opened 5 p.m., March 25, by City Council, City Hall, Billings, for purchase of one 24" and one 30" rubber-seated butterfly valves. Specifications with city clerk. Certified check or bid bond 10%.
EE 3-12

▲SEWAGE LIFT STATION, FORCE MAIN— Great Falls, Mont.

Eight bids received by School District No. 1, Washington School, Great Falls, for construction of a sewage lift station, including two 400-gpm and one 800-gpm pump, at the corner of Central Ave. and 42nd St., and for installation of 3,160' of 10" force main and 8" cement asbestos water main pipe for the East Junior High School in Great Falls. Plans by Wenzel & Co., consulting engineers, 3212 10th Ave. S., Great Falls. Bids opened March 3. TWO LOW BIDS: Robinson & Shepherd, Box 843, Missoula, $21,651; Joe Fagenstrom & Son, Black Eagle, $23,823. HI BID: Utility Builders, Inc., Ford Bldg., Great Falls, $29,995.
SC 3-8. Previous report 2-27

★STREET IMPROVEMENTS— Great Falls, Mont.

Award to City Constructors, 2518 10th Ave. S., Great Falls, $94,219, by City Council, Civic Center, Great Falls, for construction of street improvements in the Morningside Addition, SID No. 939, on 4th and 5th avenues North between 38th and 44th streets in Great Falls. Bids opened February 10. SP 3-8. Previous report 1-25

■ASPHALTIC CONCRETE PAVING, CURB— Great Falls, Mont.

Planholders announced for construction of 2½" asphaltic concrete paving, curb and gutter, and related work, in Sunrise Heights, Sunrise Terrace and portions of Lloyd Land, 4th and 5th Supplements to Sunrise Terrace, SID No. 949, Great Falls. Bids will be opened 8 p.m., March 17, by Fred L. Hill, city clerk, Civic Center, Great Falls.

Planholders: Hilde Construction Co., 3810 7th Ave. N.; Western Utility Co., 815 25th St. N.; Nilson-Smith Construction Co., 800 2nd S.; S. Birch, Inc., Ford Bldg.; Northwestern Engineering Co., Rapid City, S. Dak.; Utility Builders, Inc., 432 Ford Bldg.; Robertson & Cave, Inc., 8th Ave. N.W. and River Drive; McLaughlin, Inc., Ford Bldg. All of Great Falls unless noted.
SP 3-12. Previous report 3-5

■SANITARY SEWER— Great Falls, Mont.

Planholders announced for furnishing and installing 10" sanitary sewer in 14th St. S.W. and 8th Ave. S.W. in Great Falls. Bids will be opened 8 p.m., March 17, by Fred L. Hill, city clerk, Civic Center, Great Falls.

Planholders: Utility Builders, Inc., 432 Ford Bldg.; Robertson & Cave, Inc., 8th Ave. N.W. and River Drive; Western Utility Co., 815 25th St. N.; Joe Fagenstrom & Son, 1701 Smelter Ave., Black Eagle; Falls Construction Co., 25th St. and River Road; Earl Gray, 2600 7th Ave. N.; J. H. Qunell, West of Great Falls. Of Great Falls unless noted.
SP 3-12. Previous report 3-5

●STATE HIGHWAY PROJECTS— Helena, Mont.

Bids will be opened 9 a.m., March 27, by Montana State Highway Commission, State Capitol Bldg., Helena, on 11 highway construction projects. Plans with above office. Certified check, cashier's check or bid bond 5%.

SURFACING—Grade, aggregate surfacing, bituminous surface treatment, draining 4.997 mi. on Idaho-Dillon Road, Beaverhead County; I-ING 82-01(6) Unit 1.

Quantities: 782,446 c.y. excavation; 651 c.y. aggregate backfill; 520,341 mi. yd. overhaul; 180,615 ton crushed aggregate; 15,209 M gal. watering; 2,443 units rolling; 245 ton cutback asphalt; 246 ton emulsified asphalt; 2,052' corrugated metal pipe; 824' structural plate pipe; 4,000' steel beam guard rail; 146.7 sq. yd. concrete pavement; 2,409.2' median concrete curb; 4,199 rods wire fence. Completion time 300 calendar days.

CONCRETE, STEEL OVERPASSES—One 118' prestressed concrete highway overpass and one 450' steel and concrete highway overpass on Idaho Line-Dillon Road, Beaverhead County, I-ING 82-01(6) Unit 2.

Quantities: 241' steel beam bridge rail; 148,060 lb. reinforcing steel; 1,031.5 c.y. concrete; 1,065 c.y. structure excavation; 2,285' precast prestressed concrete beam; 25,488 lb. furnish steel bearing piles; 696' drive steel bearing piles; 899' steel bridge rail. Completion time October 31.

SURFACING—Grade, aggregate surfacing, plantmix surfacing, draining 0.030 mi. on the west of Wolf Point-North Dakota Line Road, Roosevelt County; F. 84(25) Unit 1.

Quantities: 347,168 c.y. excavation; 250 c.y. riprap; 437 c.y. aggregate backfill; 90,334 mi. yd. overhaul; 315,861 ton crushed aggregate; 12,710 M gal. watering; 2,315 units rolling; 229 ton cutback asphalt; 192 ton emulsified asphalt; 2,670' corrugated metal pipe; 83' structural plate pipe; 41,563 c.y. sand surfacing; 1,356 ton asphalt cement; 24,720 ton plantmix. Completion 250 calendar days.

CONCRETE BRIDGE—One 120' concrete bridge over Tule Creek on west of Wolf Point-North Dakota Line Road, Roosevelt County; F 84(25) Unit 2.

Quantities: 1,180 c.y. excavation; 237.5' steel bridge rail; 59,876 lb. reinforcing steel; 290.7 c.y. concrete; 345 c.y. structure excavation; 1,734' drive untreated timber piles; 1,785' furnish untreated timber piles. Completion time August 31.

SURFACING, BRIDGE—Grade, aggregate surfacing, plantmix surfacing, drain and construct 118' concrete bridge over Mission Creek on 7.756 mi. on Livingston-Bit Timber Road, Park County; I-117(10) Unit 1.

Quantities: 583,814 mi. excavation; 1,512 c.y. aggregated backfill; 340,814 mi. yd. overhaul; 183,069 ton crushed aggregate; 61,870 ton uncrushed aggregate; 13,502 M gal. watering; 2,290 units rolling; 277.18 units cutback asphalt; 230.79 tons emulsified asphalt; 346' corrugated metal pipe; 764' structural plate pipe; 2,738' reinforced concrete pipe; 1,978 ton asphalt cement; 35,964 tons plantmix; 5,487 rods wire fence; 241.46' steel beam bridge rail; 49,383 lb. reinforced steel; 380 c.y. concrete; 625 c.y. structure excavation; 805' precast prestressed concrete beams. Completion 250 calendar days.

SURFACING—Grade, aggregate surfacing, plantmix surfacing, drain 7.578 mi. on Upper Nine Mile Road, Silver Bow County; S-US-USG 213(3) Unit 2.

Quantities: 286,862 c.y. excavation; 228 c.y. aggregate backfill; 214,925 mi. yd. overhaul; 27,605 ton crushed aggregate; 42,492 c.y. uncrushed aggregate; 5,525 M gal. watering; 1,047 units rolling; 205 ton cutback asphalt; 168 tons emulsified asphalt; 146' corrugated metal pipe; 184' structural plate pipe; 3,512' reinforced concrete pipe; 1,151 ton asphalt cement; 20,954 ton plantmix surfacing; 3,725' steel beam guard rail. Completion 250 calendar days.

SURFACING—Grade, aggregate surfacing, bituminous surface treatment, drain 8.801 mi. Townsend-Canyon Ferry-Clasoil Road, Lewis and Clark, and Jefferson counties; S 6(3).

Quantities: 416,246 c.y. excavation; 561 c.y. aggregate backfill; 26,166 mi. yd. overhaul; 107,209 ton crushed aggregate; 8,288 M gal. watering; 1,388 units rolling; 207 ton cutback asphalt; 212 ton emulsified asphalt; 164' structural plate pipe; 2,160' reinforced concrete pipe; 572' relay pipe culverts. Completion time 250 calendar days.

SURFACING—Grade, aggregate surfacing, bituminous surface treatment, drain 12.665 mi. on Armells Creek-Hays-Harlem Road, Blaine County; S 187(1) Unit.

Quantities: 669,036 c.y. excavation; 263 c.y. aggregate backfill; 74,197 mi. yd. overhaul; 204,753 ton crushed aggregate; 34,802 ton uncrushed aggregate; 14,692 M gal. watering; 2,406 units rolling; 320 ton cutback asphalt; 323 ton emulsified asphalt; 2,874' corrugated metal pipe; 294' structural plate pipe. Completion time 250 calendar days.

TIMBER BRIDGES—One 75' treated timber pile bridge and one 100' treated timber pile bridge on Armells Creek-Hays-Harlem Road, Blaine County; S 187(1) Unit 2.

Quantities: 1,030 c.y. excavation; 85,801 MBM treated timber; 2,618 MBM untreated timber; 3,160' treated timber piles; 3,965 lb. structural steel. Completion time August 13.

CONCRETE BRIDGE—One 120' concrete bridge over Canyon Creek on Adobe Road

(Laurel), Yellowstone County; S 192(2) Unit 1

Quantities: 180 c.y. excavation; 243,950' steel beam bridge rail; 50,753 lb. reinforcing steel; 268.7 c.y. concrete; 355 c.y. structure excavation; 1,230' drive untreated timber piles; 1,320' furnish untreated timber pile. Completion time August 31.

SURFACING—Grade, aggregate surfacing, bituminous surface treatment, drain 3.986 mi. on East Helena-North Road, Lewis and Clark counties: S 232(1).

Quantities: 56,148 c.y. excavation; 147 c.y. aggregate backfill; 46,636 mi. yd. overhaul; 54,315 ton crushed aggregate; 1,892 M gal. watering; 389 units rolling; 95 ton cutback asphalt; 95 ton emulsified asphalt; 106' corrugated metal pipe; 798' reinforced concrete pipe; 100' steel beam guard rail. Completion 130 calendar days. DM 3-11

▲WELL DRILLING— Jordan, Mont.

A low bid of $12,810 was submitted to Town Council, Town Hall, Jordan, by Dodd Drilling Co. of Wolf Point, for drilling of a well for city water. Three bids were received. SC 3-8

★WATER WELL— Kalispell, Mont.

Award to Western Drilling and Equipment Co., 1545 E. Bay, Tacoma, $8,940, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for drilling and casing water well No. 2-TM-179 to a depth of approximately 400', including developing and testing, at Kalispell Air Force Station; ENG-45-108-58-54. SP 3-12. Previous report 2-28

★PATCHING MACHINE, GRADER— Kalispell, Mont.

Awards announced by Flathead County Commissioners, Courthouse, Kalispell, for furnishing an asphalt patching machine for use on oiled roads in the county, and for furnishing 500 grader blades to the county. AWARDS — PATCHING MACHINE: Hall-Perry Machinery Co., 1116 15th Ave. N., Great Falls, $4,845. BLADES: Westmont Tractor and Equipment Co., 55 3rd E.N., Kalispell, $7.06 per blade. SC 3-12

■ PAVING, LIGHTING, RUNWAY BARRIERS— Malmstrom AFB, Mont.

Planholders announced for taxiway-runway, access shoulder paving, lighting, marking and seeding, and runway arresting barriers at Malmstrom AFB; ENG-45-164-58-31. Bids will be opened 2 p.m., March 20, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.

Planholders: Peter Kiewit Sons' Co., Box 1854, Billings; Holland Construction Co., 1121 S. 3rd, Bozeman; S. Birch & Sons Construction Co., Box 1926, Great Falls; Lewis Construction Co., Box 2092, Great Falls; McLaughlin, Inc., Box 1924, Great Falls; Nilson-Smith Construction Co., Box 1147, Great Falls; Lou Richardson, Box 335, Miles City; Northwestern Engineering, Box 1392, Rapid City, S. Dak.; Rainbow Electric Co., 2220 River Drive, Great Falls; E. F. Pugsley, 805 E. Northlake, Seattle, Wash.; Olson Electric Co., 710 W. 8th, Vancouver; Townsco Contracting Co., 1115 Cravens Bldg., Oklahoma City, Okla.; Paul Kovack, 706 7th N., Great Falls tDM 3-7. Previous report 2-19

★AIRCRAFT FUELING SYSTEM— Malmstrom AFB, Mont.

Award to Paul W. Larsen Contractor, Inc., and The P. L. Larsen Co., 361 W. 4th South, Salt Lake City, Utah, $1,110,321 (joint venture), by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for aircraft hydrant fueling system at Malmstrom AFB; ENG-45-164-58-21. SP 3-8. Previous report 2-26

★GENERATOR INSTALLATION, EQUIPMENT— Malmstrom AFB, Mont.

Award to Goggans & Pennie, 1106 Central Ave., Great Falls, $18,366, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walls, for installation of two 250-kw government furnished diesel generators and accessories, re-energizing four substations, furnishing and installation of a switchboard and other electrical equipment, and modification of the fuel oil piping system and electrical power wiring; ENG-45-08-58-56. SP 3-11. Previous report 3-5

★FUEL STORAGE TANK, UTILITIES— Malmstrom AFB, Mont.

Award to P.S. Lord Mechanical Contractors, 4507 S.E. Milwaukie Ave., Portland, $75,423, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for base aviation fuel storage at Malmstrom AFB; ENG-45-164-58-22. SP 3-8. Previous report 2-26

▲SEWAGE COLLECTION SYSTEM, PUMPING PLANT— Missoula, Mont.

Five bids received by City Council, in the City Fire Hall, W. Pine and Stevens streets, Missoula, for construction of a sewage collection system and sewage pumping plant in Low's and Daly's Additions in Missoula. Plans by Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem, Ore., and 408 Woody St., Missoula. Bids opened March 3. TWO LOW BIDS: Browning & Randolph, 520 Ben Vista Drive S., Salem, $225,148 (sewers, clay pipe), $212,816 (sewers, concrete pipe), $16,000 (pumping plant) $4,000 (power plant); Intermountain Co., 1322 Grove, Boise, Idaho, $231,072, $221,335, $16,518, $3,380. HI BID: Bud King Construction Co., 1203 Wyoming, Missoula, $280,094, $269,075, $14,500, $3,100. RB 3-7. Previous report 2-12

★EXCAVATING, PAVING— Sidney, Mont.

Award to Albert Lalonde Co., S. Roosevelt Ave., Sidney, $26,500, by City Council, City Hall, Sidney, for excavating, laying gravel base, paving with asphaltic mix, installing concrete curb and gutter in city streets in the area of SID No. 43. Specifications by L. W. Burdick, consulting engineer, c/o Willard Webster, Box 1134, Williston, N. Dak. EE 3-12. Previous report 2-11

● SEWAGE DISPOSAL PLANT— Twin Bridges, Mont.

Bids will be opened 10 a.m., March 27 by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for construction of a lagoon-type sewage disposal plant at the Montana Orphans Home in Twin Bridges. Plans with Martin Kelly, state engineer, 231 Capitol Bldg., or with Walter C. Moyle, engineer, 307 Allen St., Helena. $25 deposit.

Project consists of two ponds each about 240'x150'; 1,370' sewer line leading to lift station; outfall sewer to river. LS 3-8. Previous report 6-21

ALASKA

★SURVEY SERVICES— Anchorage, Alaska

Award to Tuttle Engineering Co., Arcadia, Calif., $411,875, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for providing survey services for the district; ENG-95-507-58-27. AL 3-7

PAVING— Anchorage, Alaska

(Approximate cost $150,000 to $200,000)

Plans will be completed late in March by Rutledge-Johnson-Tryck, consulting engineers, Glover Bldg., Anchorage, for about 9/10 of a mile of paving along portions of Railroad Ave., Co-op Ave., Colony St. in Palmer. Bids will be called later by City Council, City Hall, Palmer. Work will involve excavation, backfill, culvert installation, asphalt surfacing. AL 3-8

● UTILITY LINE SUPPORT— Anchorage, Alaska

Bids will be opened 10 a.m., March 24, in the procurement office at Elmendorf AFB, for construction of a steel and timber structure to support steam and water utility lines crossing Ship Creek at Anchorage; Inv. No. 58-108. Specifications with above office. SC 3-8

● DISTRIBUTION LINE, TRANSFORMER— Fort Richardson, Alaska

Bids will be opened 2 p.m., April 2, by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for Alaska Tactical Facilities, Support Facilities, Explosive Component Storage, consisting of constructing 2.3-kv overhead electrical distribution line, installation of one 25-kva transformer, underground service to three ammunition storage buildings (igloos), and installation of electric panels and heaters in each building, at Fort Richardson; ENG-95-507-58-21. Specifications with above office. Bid bond 20%. SP 3-

● DOCK APPROACH, PILING— Valdez, Alaska

Bids will be opened 2 p.m., March 26, by Department of Finance of the Territory of Alaska, Purchasing Division, 519 Alaska Bldg., Box 2420, Juneau, for construction of harbor facilities including construction of 380 sq. ft. new dock approach, pulling 24 creosote piling, redriving 24 creosote piling at new location, removal of 200' of float and 57' ramp from north end of harbor and installation in the south end of harbor at Valdez; Proj. No. 249653-10. Plans with above purchasing office, with Commissioner of Highways and Public Works, Alaska Office Bldg., Juneau, and with Alaska Highway and Public Works Field Office, 1228 E. 7th, Anchorage. AL 3-

NORTHERN CALIFORNIA

● APPROACH LIGHTING— Hamilton AFB, Calif.

Bid will be opened 2 p.m., March 27, by Corps of Engineers, 180 New Montgomery St., San Francisco, for constructing approach lighting including piling, earthwork, gravel walkway, new manholes and duct lines, removal of existing facilities, modifications at vault and tower and restoration of surfaces, Hamilton Air Force Base, Marin County, Calif. Ser. No. ENG-04-203-58-3[illegible]. Plans and specifications available at above address. Bid bond 20%. Completion time 150 days. RM 3-

● WATER DISTRIBUTION SYSTEM, DINING HALL— Hamilton AFB, Calif.

Bid opening extended from March 12 to 1 p.m., March 17, by Corps of Engineers, 180 New Montgomery St., San Francisco, for construction of a water distribution system and Airmen's Dining Hall at Hamilton Air Force Base, Marin County, Calif.; Ser. No. ENG-04-203-58-314.

RM 3-15. Previous report 3-

● WATER MAIN— Hayward, Calif.

Bids will be opened 8 p.m., March 25, by City Council, City Hall, Hayward, for installation of water main for Hayward Municipal Airport; Proj. No. 1038. Specifications with Edward E. Phillips, Director of Public Works, City Hall Annex, Hayward. $25 deposit. Bid bond 10%.

Quantities: 3,981' asbestos cement pipe, 6" to 12"; 76' cast iron pipe, 6"; 14 cast iron tee; 20 gate valve, 6" to 12"; 14 cast iron plug; 8 steamer hydrants; 14 hydrant guard posts; 1,800 sq. ft. replace existing pavement. RM 3-

● PAVING, UTILITIES, SHOP ADDITION— Mather AFB, Calif.

Bid opening extended from March 11 to 2 p.m., March 26, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for addition to field maintenance special purpose shop; concrete sidewalks, curbs and gutters; paved areas; water service, sanitary sewer and gas service lines at Mather Air Force Base, Mather Field, Calif. Spec. No. 2352; Ser. No. ENG-04-[illegible]-58-18. Plans and specifications with district engineer, above address. Bid bond 20%. Completion time—240 days. RM 3-15. Previous report 3-

▲ SITE PREPARATION, DORMITORIES— Mather AFB, Calif.

Bids received by Corps of Engineers, Room 305, Wright Bldg., Sacramento, for construction of airmen dormitories Nos. 6 and 8; select fill; asphaltic concrete roads and parking areas; concrete sidewalks, curbs and gutters; and storm drain, water service, sanitary sewer, gas service, electrical dis-

tribution systems at Mather Air Force Base, Mather Field. Spec. No. 2371, Ser. No. ENG-04-167-58-19. Bids opened February 28. LOW BIDS: Baldwin Contracting Co., Inc., Box 311, Marysville, $746,900; Harbison & Mahony, 220 Sandburg Drive, Sacramento, $747,440; Stolte Inc., 8451 San Leandro St., Oakland, $752,300.

RM 3-15. Previous report 2-8

●PAVING, SEWERS, SIDEWALKS—
Sacramento, Calif.

Bids will be opened 10 a.m., March 19, by Sacramento County Board of Supervisors, County Administration Bldg., 827 7th St., Sacramento, for plantmix paving and sewer installation in East Del Paso Heights District, Sacramento County. Engineer: Logan M. Muir, Jr. Plans with Packard, Muir and Train, engineers, at 3260 J St., Sacramento. $10 deposit.

Quantities: 6,400 c.y. excavation; 125 c.y. compacted embankment; 13,805 sq. yd. untreated base, 4" and 6" thick; 13,790 sq. yd. plantmix surfacing, 2" and 3" thick; 13,790 sq. yd. seal coat; 8,640' concrete curb and gutter, rolled type; 33,730 sq. ft. concrete sidewalk, 3½" thick, 675 sq. ft. same, 6" thick; 1,005' concrete pipe, 8" to 18"; 438' of 8" concrete pipe encased in concrete; 393' corrugated metal pipe. PB 3-15

★STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids were opened February 26.

I-MEN-1-I—A four-lane highway, about 2.3 mi., to be constructed by grading and paving with plantmix surfacing on cement treated base and drainage facilities to be installed, about 12 mi. northerly of Laytonville, between 0.2 mi. north of Farmhouse Inn and 1 mi. north of Tan Oak Park, Mendocino County. AWARD: Ball & Simpson, 685 Delaware, Berkeley, $1,814,527.

II-SHA-RDG—Approaches to be graded and surfaced with plantmix surfacing on cement treated base, about 0.2 mi., and a bridge to be constructed, in Redding on Eureka Way between Court St. and California St., Shasta County. AWARD: Stolte, Inc., 8451 San Leandro St., Oakland, $247,877.

III-SAC-11,B—Furnish and install lane control traffic signal system on Folsom Blvd. at Brighton Underpass, Sacramento County. AWARD: Collins Electrical Co., Box 879, Stockton, $21,108.

IV-NAP-49-D,B,A—Furnish and install a two-phase traffic actuated signal system and highway lighting on Route 49 at Trancas Road-Redwood Road, Napa County. AWARD: R. Flatland, 1205 Harrison St., San Francisco, $18,410. PB 3-15. Previous report 3-1

★ELECTRICAL DISTRIBUTION SYSTEM—
Sacramento, Calif.

Award to H. Earl Parker, Inc., R. A. Westbrook, Inc., Morrison Knudsen Co., Inc., 6431 Elvas Ave., Sacramento, $174,920 (joint venture), by Corps of Engineers, Wright Bldg., 1209 Eighth St., Sacramento, for construction of additions to and alterations of the existing electrical distribution system, aerial and underground, at Beale Air Force Base, Yuba County, Calif. Spec. No. 2365; Ser. No. ENG-04-167-58-5.

RM 3-15. Previous report 1-18

★OPERATIONAL APRON EXTENSION, HYDRANT FUELING SYSTEM—
Sacramento, Calif.

Award to R. A. Westbrook, Inc., Morrison-Knudsen Co., Inc., H. Earl Parker, Inc., 6431 Elvas Ave., Sacramento, $1,881,315 (joint venture), by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for operational apron extension and additions to hydrant fueling system, Beale Air Force Base, Yuba County, Calif.; Serial No. ENG-04-167-58-7.

RM 3-15. Previous report 1-18

MILITARY CONSTRUCTION PROGRAM—
Sacramento, Calif.

Following are projects included in the current military construction program to be executed under the supervision of the Sacramento District Corps of Engineers. Costs shown indicate roughly the scope of work. Advertising dates are contingent on receipt of necessary funds.

BEALE AFB—Navigation Aids-GCA,ILAS and UHF-Direction Finding, etc., estimated $200,000 to $250,000, bid call expected in March; Maintenance Dock—Utilities, Paving and Roads, $900,000 to $1,100,000, April; Composite Structure—Unit I, $1,800,000 to $2,000,000, April; Storage Base Demineralize Water, $75,000 to $100,000, May; Apron, Operation, Transient & Base, $550,000 to $650,000, May; Relocate Marysville Road, $100,000 to $150,000, May.

MATHER AFB — Underground Storm Drainage, estimated $50,000 to $100,000, bid call expected in March; AC&W—Operations Bldg. & Elec. Dist., $150,000 to $200,000, April; Maintenance Docks, $900,000 to $1,000,000, May.

McCLELLAN AFB—Runway Strengthening, estimated $1,800,000 to $2,000,000, bid call expected in March; Hydrant Fueling, AV, $325,000 to $375,000, May.

TRAVIS AFB—Hydrant Fueling Jet, estimated $650,000 to $700,000, bid call expected in March; NIKE—Increment I & II, Rd. Improv., Seeding and Planting, $350,000 to $375,000, May; NIKE—Elevator and Conversion, Site T-10-E1 Mira, $275,000 to $325,000, May.

FALLON-AC&W STA.—Arctic Tower, estimated $75,000 to $100,000, bid call expected in April.

JANESVILLE—Gap Filler, estimated $100,000, bid call expected in April.

WHITMORE—Gap Filler, estimated $100,000, bid call expected in April. RM 3-15

■ STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Planholders announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids will be opened March 26.

IV-ALA,CC-69,7,ALB,RCH—Grade and surface about 2.5 mi. with plantmix surfacing on untreated base and cement treated base, portland cement concrete on cement treated subgrade, widen a bridge and construct three bridges, a freeway together with frontage roads between 0.3 mi. south of El Cerrito overhead in Albany and Jefferson Ave. in Richmond, Alameda and Contra Costa counties.

Planholders: M & K Corporation, 519 California St., San Francisco; Peter Kiewit and Son, 442 Post St., San Francisco; Charles L. Harney, Inc., 575 Berry St., San Francisco; Frederickson and Watson Construction Co., 873 81st Ave., Oakland; Stolte Inc., 8451 San Leandro St., Oakland; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco; Macco Corporation, 14409 S. Paramount Blvd., Paramount; Williams and Burrows Inc., 500 Harbor Blvd., Belmont.

II-PLU-1062—Grade two-lane highway, surface with plantmix surfacing on untreated base and existing base, about 4 mi., on Arlington Rd. between Indian Creek and Taylorsville, Plumas County.

Planholders: Orvil O. Jones, Inc., 3420 San Pablo Dam Rd., San Pablo; Souza and McCue Construction Co., Inc., Box 325, Yuba City; Daniel Bayles Jr., Box 367, Biggs; M. J. Ruddy and Son, Rt. 6, Box 1419A, Modesto; Frederickson Bros., 1259 65th St., Emeryville; Baldwin Contracting Co., Inc., 9th and Yuba, Marysville; H. B. Folsom, Box 722, Westwood; Pyramid Construction Co., 29 E. 1st St., Reno, Nev.; Huntington Bros., Box 446, Napa; M. W. Brown, Box 827, Redding; San Ardo Contractors, Box 315, San Ardo; Lester L. Rice and Sons, Inc., 235 Sumner St., Yuba City.

IV-MRN-TOMALES BAY STATE PARK, MOUNT TAMALPAIS STATE PARK—Surface about 5.6 mi. of roadway with roadmix surfacing and install drainage facilities in Tomales Bay State Park and in Mount Tamalpais State Park, Marin County.

Planholders: Lee Construction Co., 1575 Lake Chabot Rd., San Leandro; Young and Engelke Co., 110 Dry Creek Rd., Healdsburg; Caccotti and Son of Marin, Inc., 1564 Redwood Highway, Corte Madera; Kendon Paving Co., 1670 Marina Way, San Jose; Antioch Paving Co., Inc., Rt. 1, Box 535, Antioch; Brown-Ely Co., Box 474, Corte Madera; M J B Construction Co., Box 7, Stockton; Oscar C. Holmes, Inc., 927 Arguello St., Redwood City; Charles L. Harney, Inc., 575 Berry St., San Francisco; E. A. Forde Co., Box 306, San Anselmo; Gallagher and Burk, Inc., 344 High St., Oakland; Ghilotti Bros. 629 Francisco Blvd., San Rafael; Richmond Export Service Inc., 1015 Market St., Richmond.

III-YOL,SAC-7,54-B,C.A. — Surface with plantmix surfacing over existing surfacing and apply fog seal coat, about 21 mi., between Yolo and Colusa County line and between Perkins and Sloughouse, Yolo and Sacramento counties.

Planholders: Baldwin Contracting Co., Inc., 9th and Yuba, Marysville; Brighton Sand and Gravel Co., Box 7001, Sacramento; A. Teichert and Son, Inc., Box 928, Sacramento; McGillivray Construction Co., Box 873, Sacramento.

III-BUT-87-OVL,B—Surface with plantmix

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surfacing over existing surfacing and apply seal coat, about 6.8 mi., between Feather River Bridge and 6.8 mi. north of Oroville, Butte County.

Planholders: Baldwin Contracting Co., Inc., 9th and Yuba, Marysville; Bragato Paving Co., 500 Bragato Rd., Belmont; H. B. Folsom, Box 722, Westwood; A. Teichert and Son, Inc., Box 928, Sacramento; Lester L. Rice, Box 408, Yuba City.

IV-CC-7-D,A—Construct steel sign structures and furnish and install sign illumination systems between Hercules and Carquinez Strait Bridge, Contra Costa County.

Planholders: R. Flatland, 1205 Harrison St., San Francisco; Ets-Hokin and Galvan, 551 Mission St., San Francisco; California Steel Products Division, Barrett Ave. and A St., Richmond; Herrick Iron Works, 28400 Claviter Rd., Hayward; Red Top Electric Co., 150 Orchard Ave., Hayward; Charles L. Harney, Inc., 575 Berry St., San Francisco; Fischbach and Moore, Box 1271, Pittsburg; Marshall Electric Co., 1701 2nd St., San Carlos.

IV-CC-7-SPB,RCH,A,PIN,HER — Surface 3 mi. with plantmix surfacing, over existing pavement between Rivers St. in San Pablo and new Route 106, Contra Costa County.

Planholders: Oscar C. Holmes, Inc., 922 Arguello St., Redwood City; A. Turrin and Son, 418 Kahns Ave., Concord; Williams Bros., Box 422, Decoto; Gallagher and Burk, Inc., 1261 Pine St., Walnut Creek; Independent Construction Co., 741 50th Ave., Oakland; Ransome Co., 4030 Hollis St., Emeryville; E. A. Forde Co., Box 306, San Anselmo; Lee J. Immel, 13555 San Pablo Ave., San Pablo; Martin Bros., Box 638, Concord; C and H Contractors, Inc., 1015 Market St., Richmond.

IV-SF-56-SF—Resurface about 1.9 mi. with plantmix surfacing, on 19th Ave. between Vicente St. and Lincoln Way, San Francisco.

Planholders: Bragato Paving Co., 500 Bragato Rd., Belmont; Oscar C. Holmes, Inc., 927 Arguello St., Redwood City; Charles L. Harney, Inc., 575 Berry St., San Francisco; Williams Bros., Box 422, Decoto; Lee J. Immel, 13555 San Pablo Ave., San Pablo; L. C. Smith Co., 225 19th Ave., San Mateo; The Fay Improvement Co., 101 Carolina St., San Francisco; G. J. Payne Co., 6810 Crenshaw Blvd., Los Angeles; Lowrie Paving Co., 174 San Bruno Rd., South San Francisco; Reichhold and Jurkovich, 13555 San Pablo Ave., San Pablo; C and H Contractors, Inc., 1015 Market St., Richmond.

X-AMA-1235—Construct a bridge across Cosumnes River about 2 mi. south of Latrobe, Amador and El Dorado counties.

Planholders: Lee Arnold Inc., 580 Bosworth St., San Francisco; George Pollock Co., Box 903, Sacramento; Progressive Construction Co., 10001 Denney St., Oakland; John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley; MacDonald, Young and Nelson, Inc., 8907 Railroad Ave., Oakland; Nomellini Construction Co., Box 1528, Stockton; Stockton Construction Co., Box 2087, Stockton; Bo-Son, Inc., 840 Sutter Ave., Palo Alto; Oscar C. Holmes, Inc., 922 Arguello, Redwood City; John C. Gist, 1068 45th St., Sacramento; Lord and Bishop, Inc., Box 812, Sacramento; Baldwin Contracting Co., Inc., 9th and Yuba, Marysville; Dan Caputo Co., 650 Race St., San Jose; Lew Jones Construction Co., 1535 S. 10th St., San Jose; Walter H. Lindeman, Rt. 1, Box 740, Red Bluff. PB 3-15. Previous report 3-1

★SEWAGE PUMPING PLANT—
Sacramento, Calif.

Award to Crest Contracting Co., Rio Vista, $17,838, by City Council, City Hall, Sacramento, for construction of an underground sewage pumping plant at 61st and S Sts., Sacramento. PB 3-15. Previous report 3-8

●STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Bids will be opened 2 p.m., April 9, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer at above address.

II-LAS-73-E,F—Plantmix surface about 20.2 mi. of two-lane highway on existing base and surfacing, and grade and shape outer portions of existing roadbed, between Ravendale and Madeline, Lassen County.

IV-CC-106,75-C,E,CND — Plantmix surface about 0.4 mi. on existing pavement and on cement treated base at various locations at junctions of Routes 106 and 75, and at Willow Pass Road, Contra Costa County.

III-ED-11-H,I,J—Plantmix surface about 14.9 mi. over existing surface and apply seal coat, between Fred's Place and 0.8 mi. east of Echo Summit, El Dorado County. PB 3-15

▲GRADING, PAVING, SEWERS, WATER DISTRIBUTION SYSTEM—
Sacramento, Calif.

Bids received by City Council, City Hall, Sacramento, for improvement of Golf Course Estates Subdivision, including excavation, grading, curbs and gutters, sidewalks, pavement, sewers and water distribution system; Res. 3192. Bids opened March 6. LOW BIDS: McGillivray Construction Co., 65th and Folsom Blvd., $101,562; J. R. Reeves, Box 1072, $101,690; A. Teichert and Son, Inc., 1931 Stockton Blvd., $101,713. All of Sacramento. PB 3-15. Previous report 2-22

▲STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Bids received March 12 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction.

X-SOL,SAC-RVS,C.C — Construct reinforced concrete bridge, steel superstructure, grade and plantmix surface approaches and connection, between 5th St. in Rio Vista and east end of Sacramento River Bridge, Solano and Sacramento counties.

LOW BIDS: Judson Pacific-Murphy Corp., 4300 Eastshore Highway, Emeryville, $2,146,870; The Duncanson-Harrelson Co., 530 W. Cutting Blvd., Richmond, $2,619,040; Harms Bros., 521 Stockton Blvd., Sacramento; C. M. Syar, Box 1272, Vallejo, and Erickson, Phillips & Weisberg, 2554 Herndon Ave., Concord, $2,748,669 (joint venture).

II-TEH-1078—Widen three bridges, construct one bridge on Gardener Ferry Road, across overflow channels southwest of Vina, Tehama County.

LOW BIDS: S & R Construction Co., Pleasant Hill, $47,489; Ted B. Watkins, Linden, $48,054; Bo-Son, Inc., and Western Builders, 840 Sutter Ave., Palo Alto, $49,217.

III-SAC,PLA-3,17-B,A,RSV — Prepare and plant about 12 mi. of roadside areas between west of Fulton Ave. and East Roseville Overcrossing, Sacramento and Placer counties.

LOW BIDS: Batista Landscape Service, 2 S. Norfolk, San Mateo, $64,646; K.E.C. Co., Inc., 22018 S. Norwalk Blvd., Artesia, $71,909; Watkin & Sibbald, 6 Bridge St., San Anselmo, $73,308.

II-SIS-1089—Construct three bridges on west side road between Callahan and Cedar Gulch, Siskiyou County.

LOW BIDS: Leo L. Davis, Gen. Del., Fort Jones, $87,745; Bo-Son, Inc. and Western Builders, 840 Cutter Ave., Palo Alto, $101,900; R. E. Hertel, 2904 Regina Way, Sacramento, $108,888. PB 3-15. Previous report 3-8

▲EXPLORATORY CORE DRILLING—
San Francisco, Calif.

Bids received by San Francisco Public Utilities Commission, Room 287, City Hall, San Francisco, for exploratory core drilling at powerhouse sites, Canyon-Cherry Power Development (Hetch Hetchy Water Supply Contract No. 306). Bids opened March 6. LOW BIDS: Martinelli Construction Co., Inc., 2166 Market St., San Francisco, $114,353; Morris Daley, 145 California Dr., Burlingame, $118,870; Hub Pacific Bldg. Co., 472 Tehama St., San Francisco, $119,195.
RM 3-15. Previous report 2-22

●PAVING PLAYGROUND—
San Mateo, Calif.

Bids will be opened 8 p.m., March 27, by the Board of Education of San Mateo City School District in office of District Superintendent, 117 N. San Mateo Drive, San Mateo, for paving the playground at the Highlands School, located at Bunker Hill Drive and Yorktown Road. Plans and specifications with Falk & Booth, 16 Beale St., San Francisco. $25 deposit. Certified check, cashier's check or bid bond 10%. BY 3-15

★SPRINKLER SYSTEM— Stockton, Calif.

Award to Harris & Farnan, 4890 J St., Sacramento, $10,250, by City Council, City Hall, Stockton, for installing an automatic lawn sprinkler system in Sherwood Forest Park in Stockton. Bids opened February 26. OTHER LOW BIDS: United Sprinkler Co., 2448 Lee Ave., El Monte, $10,977; Sunshine Landscaping Service, 1290 N. Backer, Fresno, $11,445. RM 3-15. Previous report 2-[illegible]

●PLANTMIX PAVING, SEWERS, SIDEWALKS— South San Francisco, Calif.

Bids will be opened 3 p.m., April 4, in office of Louis H. Goss, Director of Public Works, City Hall, South San Francisco, for improving Harbor Way by extending between East Grand Ave. south to the South San Francisco Sewage Pumping Station No. 4, about 1,670', and improving Allen Ave. from Airport Way east about 800'. Work includes filling, grading, paving streets with 8" untreated base and 3" plantmix; subsurfacing; construction and installation of sidewalks, concrete curbs, gutters, storm drain lines, manholes, catch basins, sanitary sewer facilities, monuments, fire alarm system, street signs, et al. Plans and specifications at above address or with Wilsey & Ham, 111 Rollins Rd., Millbrae, $5 deposit. Certified check or bid bond 10%. BY 3-[illegible]

●OILING ROAD— Tracy, Calif.

Bids will be opened 10 a.m., March 20, in office of the Bureau of Reclamation, Tracy Pumping Plant, near Tracy, for oiling operating road, Mi. 34.89 to Mi. 70.01, Delta-Mendota Canal, between Newman and Los Banos in Stanislaus and Merced counties. Spec. No. 200C-378. Work consists of furnishing and placing 355 tons of liquid asphalt, SC-2. Specifications with B. P. Bellport, Regional Director, Box 2511, Sacramento, or H. W. Thomson, Chief, Tracy Operations Field Branch, Box 576, Tracy. Bid bond 10%. Completion time—30 days. RM 3-[illegible]

★WATER LINE— Tracy, Calif.

Award to E and J Construction Co., Inc., 5420 College Ave., Oakland, $79,322, by City Council, City Hall, Tracy, for construction of 10" water line from the city corporation yard down 10th St. to the Wainwright Village tank, and thence to the Fine Tract water well near the H. J. Heinz Co. plant in Tracy. Bids opened March 4. OTHER LOW BIDS: Manuel Smith, Box 524, Atwater, $79,530; W. M. Lyles Co., Box 495, Avenal, $83,762. RM 3-15. Previous report 3-[illegible]

▲POWER SERVICE AND RECEPTACLES— Travis AFB, Calif.

Bids received by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for additional power service for ADC facilities and additional power receptacles for Hangar Bldg. 829 at Travis Air Force Base, Solano County, Calif.; Spec. No. [illegible] Ser. No. ENG-04-167-58-20. Bids opened March 5. LOW BIDS: Jones Electric Co., Inc., 22001 Meekland Ave., Hayward, $94,946; Collins Electrical Co., Inc., Box 168, Stockton, $98,999; Crockett Electric Co., 2[illegible] Monument Blvd., Concord, $100,025. RM 3-15. Previous report 3-[illegible]

WATER MAINS, SEWERS— Winters, Calif.

A proposed $225,000 bond issue will be submitted to the voters of Winters on June 3. A sum of $75,000 would be used for improving water mains, $75,000 for storm sewers and drainage, and $75,000 for improvement of sanitary sewer and sewage disposal facilities. RC 3-[illegible]

▲DRILLING TEST HOLES— Yreka, Calif.

Bids received by State Department of Water Resources, Room 401, Public Works Bldg., Sacramento, for drilling exploration test holes for proposed Montague Dam site and Grenada Dam site on Shasta River near Yreka, Siskiyou County. Bids opened March 12.

LOW BIDS: F. G. Cannon Diamond Drilling Co., Box 549, Compton, $15,530; Process Diamond Bit and Tool Co., 66 Ritch, San Francisco, $19,370; Continental Drilling Co., 2810 N. Figueroa, Los Angeles, $19,830. PB 3-15. Previous report 3-[illegible]

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

SCHOOL ADDITIONS
BIDS CLOSE 8 P.M., MARCH 26
Burton, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Board of Education of Vashon Island Public Schools at the School District Office, Vashon High School, Burton, Washington, until Wednesday, March 26, 1958, at 8:00 P.M., for (a) **General Contract, (B) Mechanical Contract,** and (c) **Electrical Contract,** separately or combined for the construction of **additions to the Burton Elementary School,** at Burton, Washington, and the said bids will then and there be publicly opened and read aloud. Bidders and others properly interested are invited to be present at the bid opening. Bids received after the time fixed for opening cannot be considered.

Bid Documents: Specifications, including bid and contract documents, and drawings, may be examined at the office of the architect, Branch & Branch, 2616 East 11th Street, Bremerton, Washington, and at the School District Office at Vashon High School.

Bonafide bidders may obtain a set at the architect's office upon deposit of a check payable to the architect in the amount of $25.00. Should a bidder wish additional sets or parts of sets, he may obtain them by paying the cost of reproduction.

Refunds of Deposits: The full amount of deposit for one set of documents will be refunded to bonafide bidders upon return of the documents in good condition to the architect's office at or before the time set for opening bids. There will be no refund for additional sets or parts of sets. Plan holders who do not submit a bonafide bid and do not return the documents at least four days before the time set for opening bids will forfeit the full amount of their deposit.

Right To Reject Bids: The owner reserves the right to reject any and all bids and to waive informalities.

By order of: VASHON ISLAND SCHOOL DISTRICT NO. 402,
By Hal D. Barton, Superintendent.

6057—3-5, 12, 19

HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., APRIL 23
Juneau, Alaska
NOTICE TO CONTRACTORS

Invitation for bids, (construction contract) reference: Project Aaa. 50-A-235, High School, Dillingham, Alaska. Date: March 7, 1958. Name and location of project: DILLINGHAM HIGH SCHOOL Project Aaa. 50-A-235, Dillingham, Alaska. Department or Agency: Alaska Public Works, Offices of Territories, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10 A.M. Pacific Standard Time April 23, 1958 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska, and then **publicly** opened and read aloud. **Information regarding bidding material, bid guarantee, and bonds follows:** Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within twenty (20) days from date of bid opening.** Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, which ever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-235, High School, Dillingham, Alaska. The construction of a one-story steel and frame high school building containing approximately 13,500 sq. ft. of floor area. Alternates are provided for two extra classrooms and a shop. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

6066—3-15, 22, 29

ELEMENTARY SCHOOL
BIDS CLOSE 10 A.M., P.S.T., APRIL 9
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-294B, School, Anchorage, Alaska; February 26, 1958. NUNAKA VALLEY ELEMENTARY SCHOOL, Project Aaa. 50-A-294B, Anchorage, Alaska. Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time April 9, 1958 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621 Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; The Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-294B, School, Anchorage, Alaska. The construction of a one-story concrete block, glued laminated beam and timber roof deck School Building containing approximately 17,000 sq. ft., designed for 12 classrooms with an additive alternate for two extra classrooms. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

6060—3-8, 15, 22

SCHOOL ADDITION
BIDS CLOSE 10 A.M., P.S.T., APRIL 16
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-294A, School Addition, Anchorage, Alaska. February 26, 1958. GOVERNMENT HILL SCHOOL ADDITION, Project Aaa. 50-A-294A, Anchorage, Alaska. Alaska Public Works, Office of Territories, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time April 16, 1958 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P.O. Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621 Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director of Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond)in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days

after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-294A, School Addition, Anchorage, Alaska. The construction of a one-story eight classroom school addition of steel frame, reinforced concrete and concrete block. The building contains approximately 13,000 sq. ft. of floor area. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

6059—3-8, 15, 22

MEDICAL OFFICE BUILDING
BIDS CLOSE 4 P.M., MARCH 19
Seattle, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by Bassetti & Morse, Architects, at their offices, 1602 Tower Bldg., Seventh Ave. and Olive St., Seattle 1, Wash., until 4:00 p.m., Wednesday, March 19, 1958, for the construction of a Medical Office Building for the Minor and James Medical Bldg., Inc., and will then and there be opened and publicly read aloud. Bids received after the time set for opening cannot be considered.

Separate bids should be submitted for General, Mechanical, and Electrical Work respectively.

Plans, specifications and form of contract documents may be examined at the offices of the Architects, Bassetti & Morse, at the office of the Associated General Contractors of America, 215 West Harrison St., and at the Plan Bureau, 2413 Western Ave., Seattle.

Bona fide bidders may obtain one set of plans, specifications and documents upon deposit of a check payable to Bassetti & Morse in the amount of $25.00 each for General, Mechanical, or Electric Work. Additional sets of plans may be obtained upon payment of the actual cost of blueprinting. The deposit will be refunded to actual bidders upon return of the documents in good condition within ten (10) days after the time set for the opening of bids.

Each bid must be accompanied by a certified check, cashier's check or bid bond with a state-licensed surety or sureties in an amount of not less than five per cent (5%) of the base bid payable to Minor & James Medical Bldg., Inc., Seattle, Wash.

The right is reserved to accept or reject any or all bids and to waive all claims. The Owner reserves the right to select other than the low bidder.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty (30) days from time of bid opening.

Owner: Minor & James Medical Bldg., Inc., Architects: Bassett & Morse, A.I.A.

6052—2-25, 28; 3-5

COLLEGE BUILDING
BIDS CLOSE 10 A.M., P.S.T., APRIL 23
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-298, Composite Building, College, Alaska. February 26, 1958. COMPOSITE BUILDING, University of Alaska, Project Aaa. 50-A-298 College, Alaska. Alaska Public Works, Office of Territories, Department of the Interior, By (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time April 23, 1958, in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P.O. Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specification and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621 Interior Bldg., Washington 25, D. C.; at the Area Engineer's Office, Alaska Public Works, Room 220 Chena Bldg., 510 Second Ave., P. O. Box 1189, Fairbanks, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-298, Composite Building, College, Alaska. The construction of a four-story reinforced concrete building designed for college use. The total floor area is approximately 78,000 sq. ft. Additive Alternates are provided for equipment and utilities. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

6058—3-8, 15, 22

PUMPING PLANTS
BIDS CLOSE 10 A.M., APRIL 17
Oak View, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4979) will be received at Oak View, California, until 10 a.m., Pacific Standard Time, April 17, 1958, for furnishing labor and materials for Pumping Plants, Ventura Avenue No. 1, Ventura Avenue No. 2, Ojai Valley, Upper Ojai and Rincon, Ventura River Project, California. Location near Ventura, California, in Ventura County. Principal items are 17,000 cu. yds. excavation; 1,900 cu. yds. concrete; furnishing and installing steel intake and discharge manifolds; and other work. The work is divided into 3 schedules. Completion time 420 days. For particulars, address Bureau of Reclamation, P.O. Box 97, Oak View, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

6055—3-15

SCHOOL ADDITION
BIDS CLOSE 8 P.M., MARCH 20
Federal Way, Washington
NOTICE TO CONTRACTORS

Sealed bids are invited by Federal Way School District No. 210, King County, Washington, for construction of an Addition to Federal Way High School.

Bids will be received at the Administration Office of the Federal Way School District until 8:00 P.M., on Thursday, March 20, 1958, and will be publicly opened and read aloud. Bids received after the time fixed for opening cannot be considered.

Bids will be received for the General Contract, which includes the General Construction, Mechanical and Electrical Work.

Drawings and specifications, including contract documents, may be examined at the office of Lea, Pearson & Richards, Architects, 240 Stadium Way, Tacoma, Washington, and may be obtained there upon deposit of $25.00 for each set of blueprints and specifications.

The full amount of the deposit for one set of documents will be refunded to actual bidders upon return of the documents, not mutilated and without marks or annotations, within ten (10) days after the time set for opening bids. Other deposits will be refunded, with deduction for the actual cost of reproducing the drawings, under the same conditions. Plans must be returned to the Architect within five days after issuance if no bid is to be submitted. Failure to comply with any of these conditions will cause forfeiture of deposit.

Each bid must be accompanied by a certified check, cashier's check or bid bond, in an amount not less than 5% of the largest bid made payable to Federal Way School District No. 210.

The right is reserved to reject any or all bids and to waive informalities.

No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding thirty (30) days.

By order of:
FEDERAL WAY SCHOOL DISTRICT No. 210
KING COUNTY, WASHINGTON
KENNETH C. JONES, Superintendent

6062—3-7, 11, 18

RESIDENCE
BIDS CLOSE 10 A.M., P.S.T., MARCH 26
Wamic, Oregon
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P.O. Box 4136, Portland 8, Oregon, until 10:00 A.M., Pacific Standard Time, Wednesday, March 26, 1958, for the CONSTRUCTION OF A RESIDENCE at the White River Game Management area near Wamic, Oregon, and will then and there be opened and publicly read aloud. Bids received after the time fixed for opening the same will not be considered.

Plans, Specifications and Forms of Contract documents may be obtained at the office of the Oregon State Game Commission at 1634 Alder Street, Portland 8, Oregon.

All contractors shall comply with all state laws pertaining to the qualification of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342, inclusive.

Each proposal shall be made out on a Bid Form contained in the contract documents and shall be accompanied by a certified check or bid bond made payable to the Oregon State Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal.

The Oregon State Game Commission reserves the right to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening unless said award is delayed for a period exceeding thirty (30) days.

OREGON STATE GAME COMMISSION
By: P. W. Schneider, Director
1634 S.W. Alder Street
P.O. Box 4136
Portland 8, Oregon

6063—3-7, 11, 12

SCHOOL FACILITIES
BIDS CLOSE 2:30 P.M., P.S.T., MARCH 27
McCloud, California
NOTICE TO CONTRACTORS

Sealed bids are requested for the construction of new school facilities for McCloud High School to be erected at McCloud, California. The buildings will be one story in height, wood frame and concrete construction, wood siding, concrete floors, built-up roofing and hot water heating. Base Bid covers a ground area of approximately 29,542 square feet, and includes 3 regular classrooms, 3 special classrooms, administration, gymnasium, locker and shower rooms, toilet rooms, music and practice rooms, and boiler room.

Bids are to be delivered to the Board of Trustees of the Siskiyou Union High School District at their office in the Warrens Building, Yreka, California, on or before 2:30 p.m., Pacific Standard Time, Thursday, March 27, 1958. The Board of Trustees reserves the right to open all bids at any one time during the meeting.

Contract documents, which include plans and specifications, may be obtained at the office of Howard R. Perrin, Architect, 1121 Main Street, Klamath Falls, Oregon, for a deposit of $50.00 per set, which deposit will be returned to the bidder upon receipt of the documents by the Architect.

Contract documents are on file at the San Francisco Builders Exchange, 850 S. Van Ness Avenue, San Francisco, California; Daily Pacific Builder, Plan Room, 465 10th Street, San Francisco; Sacramento Builders Exchange, 1331 T Street, Sacramento; Valley Contractors Exchange, 325 West 4th Street, Chico; Builders Exchange Co-operative, 317 Builders Exchange Building, Portland, Oregon; Eugene Builders Exchange, 145 East 29th Street, Eugene, Oregon; Cal-Ore Builders Exchange, 246 S. Central, Medford, Oregon; and at the office of Dr. J. E. Hurley, Superintendent, Siskiyou Union High School District, Warrens Building, Yreka, California.

Bidders are hereby notified that pursuant to the Statutes of the State of California, or local law thereto applicable, the Trustees of the Siskiyou Union High School District have ascertained the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of workmen or mechanic needed to execute the contract. The prevailing rates so determined are as follows:

Brick Layers	$3.50
Brick Layers Tender	2.75
Carpenters	3.22½
Cement Finishers	2.99½
Cement Mixer, under 1 yd.	2.705
Cement Mixer, over 1 yd.	3.035
Concrete Vibrator Operator	2.575
Electricians	3.35
Iron workers, structural	3.40
Iron workers, reinforcing	3.15
Laborers, Building and concrete	2.325 to 3.375
Lathers	3.4375
Plasterers	3.375
Painters	3.00 to 3.70
Plumbers	3.45
Roofers	3.10
Sheet metal work	3.25
Steam fitters	3.45
Tile setters	3.50
Tile setters helpers	2.75

Overtime not less than one and one-half (1½) times the above rates; Sundays and holidays, not less than one and one-half (1½) times the above rates. Bidders shall check with the Building Trades Council having jurisdiction, for any rates not covered, for health, welfare, and other funds and benefits for changes in rates or benefits, which have been established by craft agreement.

Bids are to be accompanied by 5% bid bond or certified check and the successful bidder will be required to furnish a surety company 50% performance and 50% Labor and Material Bond, and he shall be required to carry Public Liability Insurance to cover all phases of the work.

The Board of Trustees of the Siskiyou Union High School District reserves the right to reject any and all bids and to waive any informalities.

Signed: James D. Herbert
Clerk

6064—3-11, 18, 25

DORMITORY, PHYSICAL EDUCATION BUILDINGS

BIDS CLOSE 2 P.M., P.S.T., APRIL 3

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed bids will be received by the Oregon State Board of Higher Education at Room 20, General Extension Division Building, 1633 S.W. Park Avenue, Portland 1, Oregon, until 2 P.M., Pacific Standard Time, on Thursday, April 3, 1958, for the construction of the Men's Dormitory No. 3 and the Men's Physical Education Building Addition, University of Oregon, Eugene, Oregon.

Briefly the work is described as follows:

The Men's Dormitory No. 3 consists of five separate units, three and four stories in height, reinforced concrete with brick veneer and metal panels; approximately 79,587 square feet; capacity of 329 students.

The Men's Physical Education Building Addition includes a standard type swimming pool, 42 ft. x 75 ft. The Building is approximately 104 ft. x 134 ft.

For the Men's Dormitory No. 3, separate bids will be received for General Work, Mechanical Work, Electrical Work, and Built-In Furniture.

For the Men's Physical Education Building Addition separate bids will be received for the General Work and the Mechanical Work.

Separate bids may be submitted for any type of work on either project, or both, on forms provided by the architects.

All bidders must comply with Chapter 279, Oregon Revised Statutes, relating to the qualification of bidders.

One set of drawings, specifications, and contract documents for each contract relating to the Men's Dormitory No. 3 may be obtained by **prime bidders only** from Church, Newberry, Roehr & Schuette, Architects, 619 Builders Exchange Building, Portland, Oregon, upon the deposit of $50.00.

One set of drawings, specifications, and forms of contract documents for each contract relating to the Men's Physical Education Building Addition may be obtained by **prime bidders only** from Wick & Hilgers, Architects, 909 Portland Trust Building, Portland 4, Oregon, upon the deposit of $50.00.

Additional sets may be obtained from the architects for the cost of reproduction.

The deposit made upon the procurement of drawings, specifications, and forms of contract documents will be refunded upon the return thereof in good condition by actual bidders within two weeks after the opening of bids, but to non-bidders only if returned no later than two weeks prior to the bid opening.

The drawings, specifications, and forms of contract documents for each project may be examined at the Builders' Exchange in Portland, Eugene, and Salem, Oregon, and at the offices of the architects.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the bid forms provided by the architects and accompanied by a certified check or a bid bond executed in favor of the State of Oregon and the Oregon State Board of Higher Education in an amount not less than ten per cent (10%) of the total amount of the bid to be forfeited as fixed and liquidated damages should the bidder neglect or refuse to enter into a contract and provide suitable bond for the satisfactory performance of the work in the event the contract is awarded to him.

The Oregon State Board of Higher Education reserves the right to reject any or all bids and to waive all informalities.

No bidder may withdraw his bid after the hour set for the opening thereof until after the elapse of 30 days from the bid opening.

OREGON STATE BOARD OF HIGHER EDUCATION,
Earl M. Pallett, Secretary
Eugene, Oregon

6065—3-12

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., MARCH 18

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, March 18, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal funds have been allocated for items Nos. 1 to 6 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing and Paving with Cement Concrete on 3.626 miles of Primary State Highway No. 3 in Spokane County, WASHINGTON ROAD TO HATCH ROAD, FAP No. F-037-2(5), involving about 91 acres of Clearing, 437,270 cubic yards of Common Excavation, 438,560 cubic yards of Solid Rock Excavation, 65,250 units of Overhaul, 9,330 cubic yards of Top Soil, 65,710 tons of Selected Roadway Borrow, 27,190 tons of Crushed Surfacing and Crushed Cover Stone, 192 tons of Asphalt Cement, 800 tons of Asphaltic Concrete, 51,050 square yards of Cement Concrete Pavement, 28,080 pounds of Steel Reinforcing Bars, 140 linear feet of Metal Pipe, 3,876 linear feet of Concrete Pipe, 9,574 linear feet of Beam Guard Rail, 14 Guide Posts, 1,000 tons of Loose Riprap and other items.
2. Surfacing, Constructing Bituminous Surface Treatment, Constructing Cement Treated Base, Paving with Asphaltic Concrete and Installing Illumination on 3.759 miles of Primary State Highway No. 1 in Snohomish County, STIMSON ROAD TO PORTAGE CREEK, FAP No. I-001-4(19), involving about 11,310 cubic yards of Common Excavation, 4,520 cubic yards of Top Soil, 52,370 tons of Selected Roadway Borrow, 16,870 tons of Crushed Surfacing and Crushed Cover Stone, 389 tons of Asphalt Cement, 7,800 barrels of Portland Cement, 105,760 square yards of Cement Treated Base, 45 cubic yards of Prime Coat Aggregate, 25,930 of Asphaltic Concrete, 2,130 linear feet of Asphaltic Concrete Curb, 775 linear feet of Asphalt Lined Spillway and Roadway Ditch, 710 linear feet of Extruded Traffic Curb, 14 linear feet of Metal Pipe, 124 linear feet of Concrete Pipe, 1,227 linear feet of Beam Guard Rail, 188 Guide Posts, 540 tons of Loose Riprap, 140 linear feet of Wire Fence, a lump sum bid for Illumination System and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
3. Surfacing, Constructing Bituminous Surface Treatment and Paving with Asphaltic Concrete on 1.172 miles of Primary State Highway No. 12 in Pacific County, WILLAPA RIVER BRIDGE APPROACHES, FAP No. F-006-2(4) Unit 2, involving about 200 cubic yards of Common Excavation, 42,260 tons of Ballast, Crushed Cover Stone, Maintenance Rock and Crushed Screenings, 60 tons of Asphalt Cement, 210 cubic yards of Prime Coat Aggregate, 3,300 tons of Asphaltic Concrete, 360 linear feet of Precast Traffic Curb, 46 cubic yards of Concrete, 10,320 pounds of Steel Reinforcing Bars, 89 Guide Posts, 500 cubic yards of Riprap and other items.
4. Clearing, Draining, Grading, Surfacing, Paving with Bituminous Plant Mix and Constructing Two Reinforced Concrete Slab Bridges on 0.341 mile of Primary State Highway No. 9 in Grays Har-

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bor County, RAFT RIVER AND TEN O'CLOCK CREEK BRIDGES AND APPROACHES, FAP No. F-007-2(4), involving about 13,850 cubic yards of Common Excavation and Borrow, 3,385 cubic yards of Selected Roadway Borrow, 970 cubic yards of Crushed Stone Surfacing and Mineral Aggregate, 525 tons of Bituminous Plant Mix, 30 linear feet of Iron Pipe, 146 linear feet of Corrugated Metal Pipe, 156 linear feet of Beam Guard Rail, 187 cubic yards of Concrete, 27,640 pounds of Steel Reinforcing Bars, 2 lump sum bids for Superstructure (about 421 cubic yards of Concrete, 105,000 pounds of Steel Reinforcing Bars and 408 linear feet of Reinforced Concrete Bridge Railing), 1,350 linear feet of Concrete Piling and other items.

5. Installing Signs on 6.457 miles of Primary State Highway No. 1 in Thurston County, TROSPER ROAD TO MARTIN WAY—SIGNING, FAP No. I-001-2(58), involving a lump sum bid for the Entire Improvement. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
6. Installing Signs on 4.261 miles of Primary State Highway No. 18 in Grant County, MOSES LAKE BRIDGE TO SSH No. 11-G—SIGNING, FAP No. I-002-4(14), involving a lump sum bid for the Entire Improvement. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
7. Clearing, Draining, Grading, Surfacing, Constructing Cement Treated Base and Paving with Asphaltic Concrete on 0.625 mile of Secondary State Highway No. 17-A in Skagit County, MINKLER LAKE VICINITY, a State Project, involving about 9 acres of Clearing, 74,980 cubic yards of Common Excavation and Borrow, 31,680 units of Overhaul, 7,650 cubic yards of Selected Roadway Borrow, Crushed Surfacing, Prime Coat Aggregate and Crushed Cover Stone, 30 tons of Asphalt Cement, 8,435 square yards of Cement Treated Base, 830 barrels of Portland Cement, 1,800 tons of Asphaltic Concrete, 880 linear feet of Asphaltic Concrete Curb, 23 cubic yards of Concrete, 2,550 pounds of Steel Reinforcing Bars, 150 linear feet of Concrete Pipe, 480 linear feet of Metal Pipe, 1,959 linear feet of Beam Guard Rail and other items.
8. Paving with Bituminous Plant Mix, Surfacing Shoulders and Constructing Bituminous Surface Treatment on 6.042 miles of Primary State Highway No. 21 in Mason and Kitsap Counties, BELFAIR NORTHEAST, a State Project, involving about 8,120 tons of Crushed Surfacing, 165 tons of Asphalt Cement, 1,110 cubic yards of Crushed Cover Stone, 12,765 tons of Bituminous Plant Mix and other items.
9. Constructing Bituminous Surface Treatment on 30.96 miles of State Highways Nos. 3, 8, 11-A and 11-G in Garfield, Franklin and Benton Counties, DODGE TO KUHL RIDGE ROAD, ET AL, a State Project, involving about 594 tons of Asphalt Cement, 6,530 cubic yards of Mineral Aggregate and other items.
10. Stockpiling Mineral Aggregates, Crushed Surfacing and Fine Screenings on Secondary State Highway No. 9-A in Clallam County, CLALLAM BAY VICINITY, a State Project involving about 12,400 tons of Crushed Materials.

E. A. COWELL, Chairman.
W. A. BUGGE, Director of Highways.

6054—3-1, 8

FOUR-STALL GARAGE
BIDS CLOSE 10 A.M., MARCH 26
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P.O. Box 4136, Portland 8, Oregon, until 10:00 A.M. Pacific Standard Time, Wednesday, March 26, 1958, for the CONSTRUCTION OF A FOUR-STALL GARAGE at the Hood River Hatchery at Dee, Oregon, and will then and there be opened and publicly read aloud. Bids received after the time fixed for opening the same will not be considered.

Plans, Specifications and Forms of Contract documents may be obtained at the office of the Oregon State Game Commission at 1634 S.W. Alder Street, Portland 8, Oregon.

All contractors shall comply with all state laws pertaining to the qualification of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342, inclusive.

Each proposal shall be made out on a Bid Form contained in the contract documents and shall be accompanied by a certified check or Bid Bond made payable to the Oregon State Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal.

The Oregon State Game Commission reserves the right to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening unless said award is delayed for a period exceeding 30 days.

OREGON STATE GAME COMMISSION
By: P. W. Schneider, Director
1634 S.W. Alder Street
P.O. Box 4136
Portland 8, Oregon

6049—2-25, 26, 27

WATER CONTROL STRUCTURE, DITCH
BIDS CLOSE 10 A.M., P.S.T., MARCH 25
Cheney, Washington
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, The Interior Building, 1001 N. E. Lloyd Boulevard, Portland 8, Oregon. Telephone: BElmont 4-3361, Extension 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T., March 25, 1958, and then publicly opened, for the construction of a reinforced concrete water control structure and drain ditch at the Turnbull National Wildlife Refuge near Cheney, Washington. Plans and specifications may be obtained at the above address. Leo L. Laythe, regional Director.

6061—3-11, 18

SHOP, STORAGE BUILDING
BIDS CLOSE 10 A.M., P.S.T., MARCH 19
Malta, Montana
NOTICE TO CONTRACTORS

U.S. Department of the Interior, Fish and Wildlife Service, The Interior Building, 1001 N.E. Lloyd Blvd., P.O. Box 3737, Portland 8, Oregon. Telephone BElmont 4-3361, Ext. 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T., March 19, 1958, and then publicly opened for furnishing and erecting a metal shop and equipment storage building on concrete foundation to be constructed by the Government, at the Fort Peck Game Range, south of Malta, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

6056—3-5, 12

WASCO DAM
BIDS CLOSE 2 P.M., MARCH 18
Culver, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5022) will be received at Culver, Oregon until 2 p.m. Pacific Time March 18, 1958, for furnishing labor and materials for Wasco Dam, Wapinitia Project, Oregon. Location 35 miles west of Maupin, Oregon, in Wasco County. Principal items are 91,000 cu. yds. excavation; 45,000 cu. yds. dam embankment; 515 cu. yds. concrete; and other work. Completion time 500 days. For particulars, address Bureau of Reclamation, Jerichol Lane, Culver, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commisioner.

6042—2-15

RESIDENCES, ROADWAYS, PIPELINES
BIDS CLOSE 10 A.M., MARCH 26
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P.O. Box 4136, Portland 8, Oregon, until 10:00 A.M. Pacific Standard Time, Wednesday, March 26, 1958, for the CONSTRUCTION OF TWO RESIDENCES, ROADWAYS AND PIPELINES, at the Oak Springs Hatchery near Maupin, Oregon, and will then and there be opened and publicly read aloud. Bids received after the time fixed for opening the same will not be considered.

Plans, Specifications and Forms of Contract documents may be obtained at the office of the Oregon State Game Commission at 1634 S.W. Alder Street, Portland 8, Oregon.

All contractors shall comply with all state laws pertaining to the qualification of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342, inclusive.

Each proposal shall be made out on a Bid Form contained in the contract documents and shall be accompanied by a certified check or Bid Bond made payable to the Oregon State Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal.

The Oregon State Game Commission reserves the right to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening unless said award is delayed for a period exceeding 30 days.

OREGON STATE GAME COMMISSION
By: P. W. Schneider, Director
1634 S.W. Alder Street
P.O. Box 4136
Portland 8, Oregon

6051—2-25, 26, 27

SIX-STALL GARAGE
BIDS CLOSE 10 A.M., MARCH 26
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P.O. Box 4136, Portland 8, Oregon, until 10:00 A.M. Pacific Standard Time, Wednesday, March 26, 1958, for the CONSTRUCTION OF A SIX-STALL GARAGE at the Regional Office at La Grande, Oregon, and will then and there be opened and publicly read aloud. Bids received after the time for opening the same will not be considered.

Plans, Specifications and Forms of Contract documents may be obtained at the office of the Oregon State Game Commission at 1634 S.W. Alder Street, Portland 8, Oregon.

All contractors shall comply with all state laws pertaining to the qualification of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342, inclusive.

Each proposal shall be made out on a Bid Form contained in the contract documents and shall be accompanied by a certified check or Bid Bond made payable to the Oregon State Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal.

The Oregon State Game Commission reserves the right to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening unless said award is delayed for a period exceeding 30 days.

OREGON STATE GAME COMMISSION
By: P. W. Schneider, Director
1634 S.W. Alder Street
P.O. Box 4136
Portland 8, Oregon

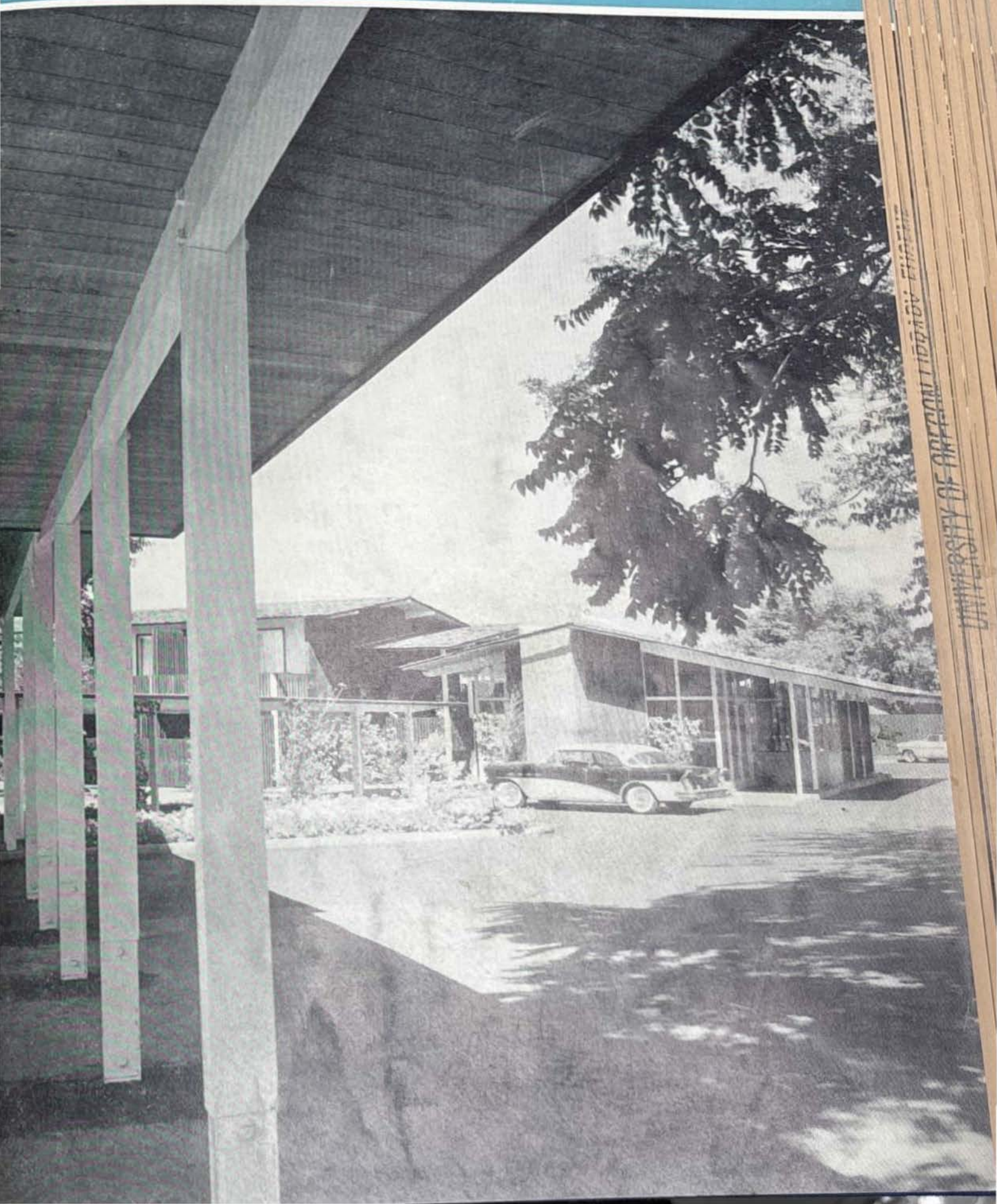
6050—2-25, 26, 27

AUDITORIUM, CAFETERIA BUILDING
BIDS CLOSE 1 P.M., MARCH 18
Balboa Heights, Canal Zone
NOTICE TO CONTRACTORS

Sealed bids will be received in the office of the Engineering and Construction Director, Panama Canal Company, Balboa Heights, Canal Zone, until 1:00 P.M. March 26, 1958 and at that time publicly opened, for the work and material required in the construction of R.O.T.C. activities facilities at Balboa, Canal Zone. The work consists of building one new masonry auditorium seating 600, complete with stage, and band, choir, rehearsal, recording rooms. Also, one new R.O.T.C. masonry building with cafeteria and appurtenant facilities. Data are available for examination in the office of Chief, Procurement Division, Panama Canal Company, 21 West Street, New York 6, N. Y. Complete sets of data may be obtained upon payment of $50.00 deposit which will be refunded if data are returned within 40 calendar days after bid opening. Telephone Bowling Green 9-5300, extension 130.

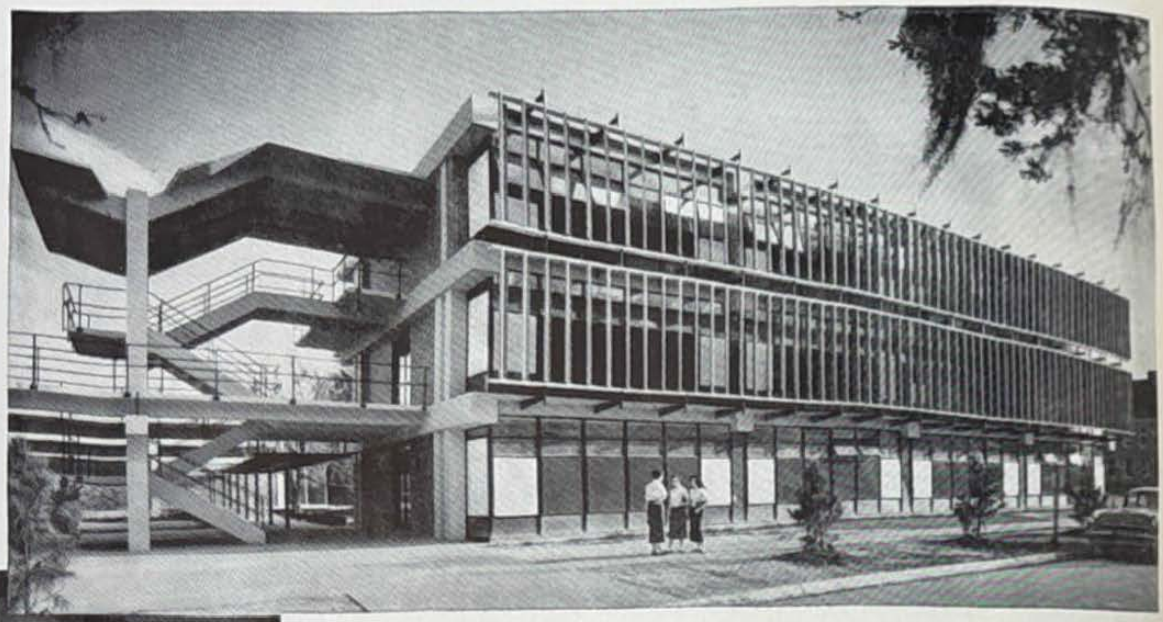
6053—3-1

pacific architect and builder



BOLD NEW DESIGN

for a Fine Old Tradition



MEMORIAL STUDENT UNION
SOUTHWESTERN LOUISIANA INSTITUTE,
Lafayette, Louisiana

General Contractor:
BARKSDALE & LeBLANC,
Baton Rouge, Louisiana

Architect and Engineer:
BURK, LEBRETON & LAMANTIA,
New Orleans

Lone Star Concrete supplied by
LAFAYETTE LUMBER COMPANY,
Lafayette, Louisiana

The Spirit of Southern Hospitality Finds Dramatic Expression in These Modern New College Campus Buildings

• Memorial Student Union strikes a note of pleasing contrast amidst academic surroundings and architecture of by-gone days.

Set beside a small pond, overhung with magnolia and Spanish moss, the impressive structures dominate the social life of the students on the campus of Southwestern Louisiana Institute, in Lafayette, Louisiana.

Three interconnected buildings comprise the student union, housing the college bookstore, post-office, snack bar, ballroom and other recreational facilities.

Significantly, the structures are built with reinforced concrete to meet today's needs and the challenge posed by the generations of tomorrow.

Concrete combines great strength, economy, fire-safety and beauty in one versatile material, providing the widest possible latitude for the designer's creative skill backed up by sound construction know-how.

In these fine structures, there were 4000 barrels of Lone Star Portland Cement used. For complete dependability and assured uniform quality, use Lone Star Portland Cement.

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Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 3 APRIL 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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THE COVER

Dinah's Motor Hotel, Palo Alto, Calif. (p. 15). Campbell & Wong, Architects; Roger Sturtevant photo.

BULLETINS

The Portland firm of Stewart & Richardson early this month was named architect for the Oregon Centennial Exposition and International Trade Fair by the Centennial Commission, which has been under constant fire the past several months for its handling of the design development. Among those who pressed hard for the appointment of an architect was John K. Dukehart, newly elected president of the Oregon Chapter, AIA, who, in referring to the centennial celebration, said: "The architect has been relegated to the position of decorator or embellisher and to date all planning has been dominated by an entertainment organization."

California architects have been invited to attend the convention of the Central California Chapter, AGC, in Monterey April 24-26. Main session on the final day will be devoted to the relationship of architect to builder—and vice versa—and of both to owner. Among the speakers: architects John S. Bolles and Nathaniel Owings and contractors L. D. Weirick and Frank F. Burrows.

Washington State Regional Laboratory (see PA&B for April '57) will be dedicated on the WSC campus at Pullman April 25. Principal speaker at the banquet, to be held in conjunction with the annual meeting of the students and the Spokane Chapter, AIA, will be Charles W. Attwood, representing the Building Research Institute and Unistrut Corp., the firm which donated the structural steel framework for the two-classroom building.

Correction: The news article on page 10 concerning the dedication of Lawrence Hall at the University of Oregon inadvertently failed to credit Annand, Boone & Lei as architects, working with Dean Little and his staff.

THE CALENDAR

National Association of Architectural Metal Manufacturers—annual convention, Shamrock Hilton, Houston, April 27-May 2.

Western Air Conditioning Industries Association — conference and exhibit, Shrine Exposition Hall, Los Angeles, May 7-11.

Stanford Research Institute — annual western area conference, Vancouver, B. C., May 26-27.

THE BUILDING MONTH: TRENDS

Seattle's metropolitan government proposal—the Metro Plan—which would have set up a municipal corporation to handle sewage, public transit and planning lost at the polls in March when it failed to win a majority of the votes in the suburbs. But unabashed, a group of citizens, with East Side suburbanites this time taking the initiative, are drafting another proposal which will deal only with sewage disposal and pollution, eliminating the transportation and area planning functions of the original plan. Their aim: to submit the measure at the September primaries.

San Francisco's problems too can only be handled effectively on an areawide basis. So declared Reginald H. Biggs, retiring chairman of the San Francisco Bay Area Council at the annual meeting March 26; and his successor, Edgar F. Kaiser, said that the group would press for a comprehensive study of these problems—the need for land use planning, for a unified highway and transportation system, for an adequate future water supply, for air and water pollution control, for recreational facilities.

Real estate magnate William Zeckendorf came to Los Angeles to address the Southern California Chapter, AIA, last month and before he left he disclosed plans ("just in the talking stages") for a $550 million housing development in the Santa Monica Mountains. The head of New York's Webb & Knapp Co. said there would be only one giant apartment house for each 100-acre tract and all but the building site itself would be preserved in its natural state except for parks, tennis courts, etc.

A contractors' licensing law designed to police the industry has been drafted by the Home Builders Association of Washington State and will be submitted to the next session of the legislature. The proposal would protect the public from unethical operators and would impose restrictions on violators.

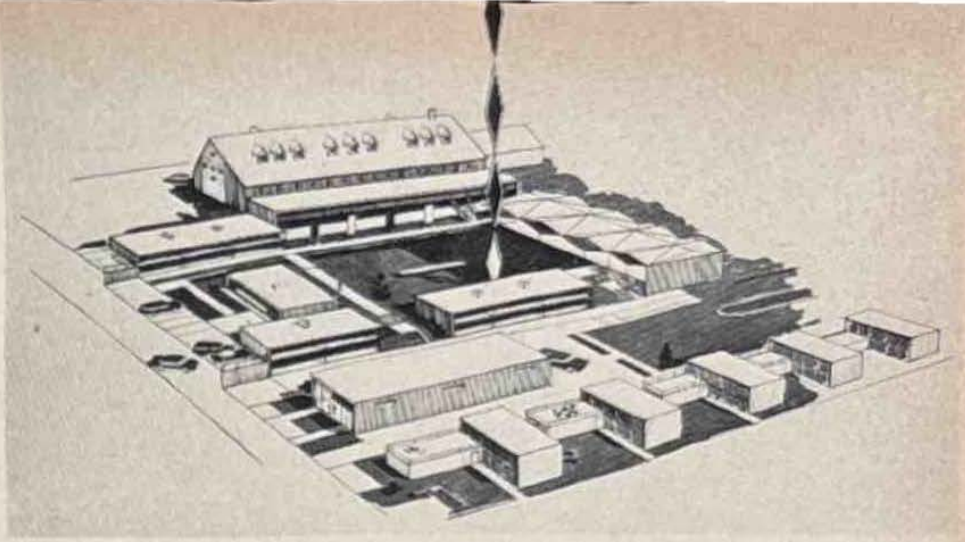
A tractor-trenching device that digs for subsurface drainage systems, forms pipe from a plastic sheet and backfills the hole was among recent developments to be introduced to members of the Building Research Institute at their seventh annual meeting in Washington, D.C., this month. Executive director William H. Scheick reports that pipe can be laid by this system at a quarter of the cost of current methods. Developed by the U. S. Department of Agriculture, it also makes possible the reclaiming of swampy, marginal land for development purposes.

Formation of National Cement-Asbestos Erectors Association "heralds the recognition of the importance of this industry which has for many years performed a noteworthy and illustrious service in its part of the building industry," says executive director C. C. Figge, who headquarters at 189 W. Madison St., Chicago.

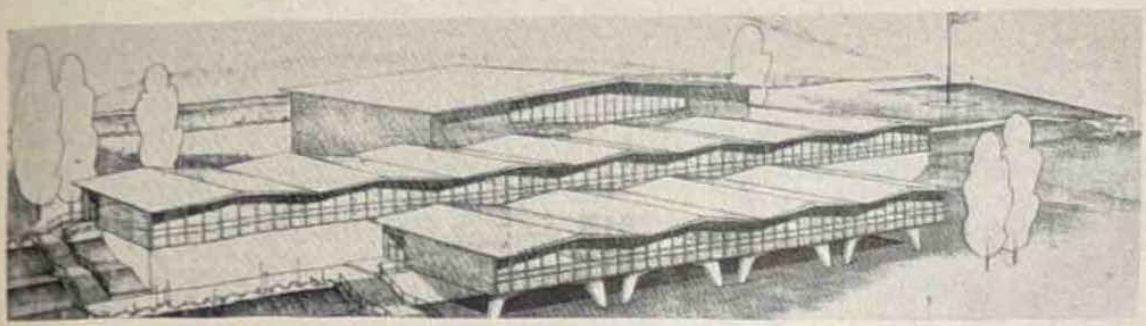
Total engineering enrollment in the U.S. and its outlying parts in institutions accredited by the Engineers' Council for Professional Development reached an all-time high of 257,777 students in the fall of 1957, a 5.5% over the previous peak reported in 1947. A year-to-year increase has been shown since 1951.

A full-scale sun heated home has been built by the Massachusetts Institute of Technology, practical in every way except the initial cost of its hand-made heating system. This could make it too expensive for the average home owner "in the near future," explains a professor of MIT's School of Architecture and Planning. South side of the glass roof lets the sun heat in, but keeps the long heat waves from getting back out again. Copper tubes are attached to the back of a black-painted aluminum sheet, just under the glass, and water circulates through the tubes. Hot water is pumped through a heat exchanger upward through ducts and registers to all rooms of the house. (For an article on a solar house which has been opened near Phoenix, see p. 8.)

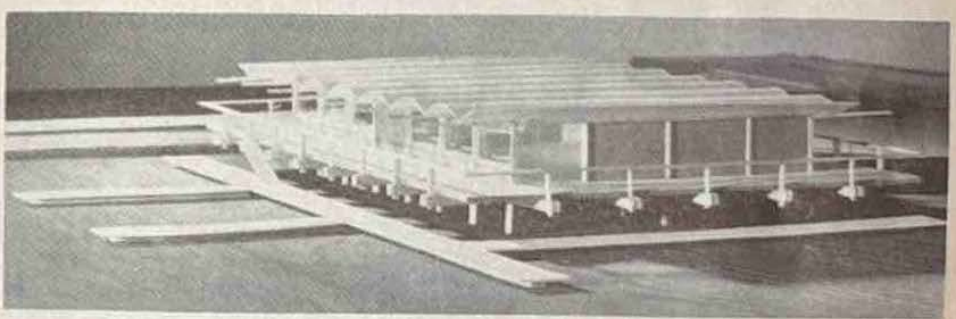
PROJECT PREVIEW



COASTAL RESORT on U. S. Highway 101 near Oceanlake, Ore., will be expanded in $250,000 development, to include renovation of existing Dorchester House. Identifying sculptured tower of light will rise from central gardens, around which will face full-length extension to main structure, four cabanas with view decks and swimming pool building (note faceted roof). Community activity building for indoor sports and additional cabanas will be located further west on seaward side. Oregon cedar and fieldstone will be principal materials. Designer: Robert K. Grubb.



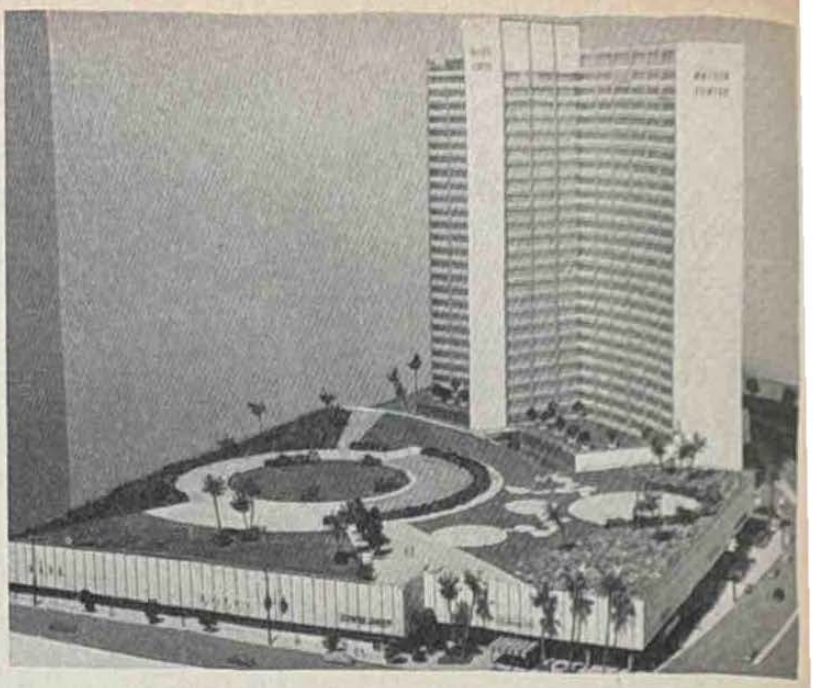
ELEMENTARY SCHOOL to be built of steel frame, brick and aluminum curtain walls and laminated wood roof in Butte, Mont., takes advantage of rolling site to provide three levels and reduce construction costs. Front portion, with covered play area underneath, will contain four classrooms; center section will have four classrooms, administrative offices, nurses' room, faculty lounge; rear portion will house all-purpose room equipped with stage, storage and locker rooms, electric kitchen. Architects-engineers: J. G. Link & Co.



YACHT CLUB in Sausalito, Calif., will be shared by owners of two types of craft—sailboats and power cruisers—who decided to pool limited funds but insisted upon retaining their respective identities. Flexible plan provides for common main entrance and toilet facilities; two separate lounge areas; and main hall adjacent to either lounge, which can be closed off. Because most of hillside residences will look over building, special consideration was given to roof, of lightweight, plywood barrel vaults. Architect: Theodore T. Boutmy; consultant: George Kasmak; structural engineer: John Brown.

OFFICE BUILDING for midtown Honolulu, near Waikiki Beach, will feature roof garden restaurant with ocean view on three sides through glass window walls and revolving lounge, making one complete turn an hour. Vertical sunshades, rotated by electric eye, will afford sun protection for entire 17-story structure, to adjoin regional shopping center now in advanced planning stages. Architects-engineers: John Graham & Co.

JOB OF THE MONTH



COMPLETE SHOPPING CENTER, five-level parking structure and four-acre roof garden all will be part of $45 million project, which will house more than 3,000 Kaiser employees.

Oakland's Kaiser Center: city within a city

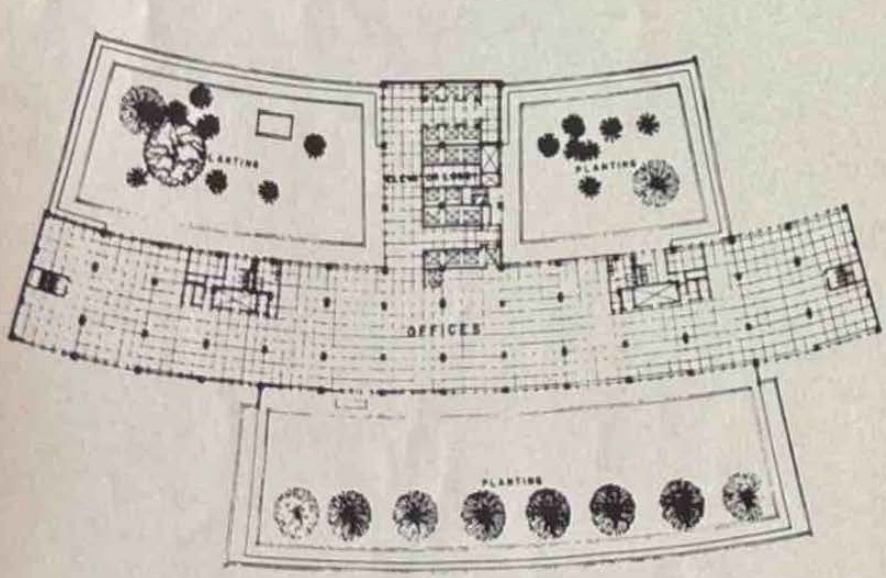
Letting of final major contracts clears the way for all-out construction of the $45 million Kaiser Center, which will dominate a seven-acre site overlooking Lake Merritt in downtown Oakland when completed in late 1959.

Robert E. McKee, Inc., of Los Angeles has been awarded a contract for general construction of the office building and another for the five-level garage and shopping center structure.

Designed by Welton Becket & Associates, the center's 1,650,000 sq. ft. of space will include a gross area of 976,000 sq. ft. in the office building—making it the largest west of the Rocky Mountains—and 674,000 sq. ft. in the shops and parking structure. Murray Erick Associates are structural engineers; Dudley Deane & Associates, mechanical-electrical engineers.

Rising 390 ft. above street level, the office building will be floated on a 5-ft. thick concrete slab foundation, 62 ft. wide by 420 ft. long. Subsurface work, performed by MacDonald, Young & Nelson, Inc., of Oakland, has been underway since late 1957 and should be completed this month.

The building will provide executive and general staff offices for Kaiser Industries Corp. and its some 50 affiliated companies. More than 3,000 employees will be housed in the office structure, whose capacity will be 4,500.



TYPICAL OFFICE FLOOR

Exterior: Sheathed front and back in anodized gold and gray aluminum and glass, the 28-story building will form a curved arc following the shoreline. End panels of the office structure will consist of 5x13-ft. sections of precast white dolomite aggregate stone. Special window glass will eliminate heat and glare. About 150,000 sq. ft., or 3½ acres, of glass will be employed throughout the building.

All roof decks of the entire center will be landscaped, as will perimeter streets adjacent to shop fronts.

Interior: The office structure will include 20,000 sq. ft. of space for shops on the first floor, an auditorium, cafeteria, electronic computer section and a medical clinic for employees. Main entrance will be from the Lake Merritt side. A two-story open well will connect ground floor and second floor lobbies, with an escalator threading through the well to the upper lobby.

Both lobby areas will be given special decorative treatment, incorporated with interior planting. A mosaic mural is planned for the wall near the main entrance. Lobby walls will feature precast polished panels fashioned from Kaiser materials.

Seventeen high speed automatic elevators will carry traffic from the lobby to three zones.

Main auditorium on the second floor will seat 400 persons. It will contain specially designed king-size seats, a projection booth, light coves in a recessing pattern of vertical troughs along the sides and a large glass-en-

PROJECT SITE, as indicated by model superimposed on Oakland skyline, is western shore of Lake Merritt.

CAFETERIA-DINING ROOM, overlooking lake on second floor, will accommodate 800 persons, can be converted into 1,200-seat banquet room by closing off serving area.

closed foyer fronting the lake.

Walls of the dining room will be precast polished dolomite stone panels, while one end will be decorated with a low 60-ft. long planter complemented by individual plants bracketed to the wall. Featuring blue, yellow and white, the room will have certain areas of the ceiling lowered to form geometric designs.

Private dining rooms, the medical clinic and general office areas will complete the second floor facilities. Additional offices and the electronic data processing section will be on the third, while executive and general offices will occupy the rest of the building through the 27th floor.

An executive dining room on the 28th floor will seat 175 persons.

Special Features: The radiant ceiling air conditioning will consist of perforated squares of aluminum, behind which is assembled a system of pipes carrying hot or cold water. Interior air will be circulated through ducts, also located in the ceiling.

A push-button control mailing system will deliver mail to any floor of the building by the simple pressure of a finger. Pneumatic tubes will be used for the transmittal of wire messages.

Reduction of building costs is main objective of industry research group

When the Building Research Advisory Board and the Building Research Institute met in Washington, D.C., for a joint meeting in February, they heard 11 speakers develop a list of problems as a challenge to everyone concerned with building design and construction. Problems for 1) creators of buildings, 2) researchers on new products, 3) owners and operators of buildings were presented in PA&B last month. Here is the conclusion of that list.

Problems in housing research

1. Among the basic problems affecting housing research is the diversification of the industry consisting as it does of consumers, code and government regulatory bodies, mortgage bankers, designers, manufacturers, appraisers, builders, subcontractors and labor. All need to be educated to today's concept of housing research.

2. Another obstacle to progress in housing research is the fact that housing has become a political, social and economic issue in today's society.

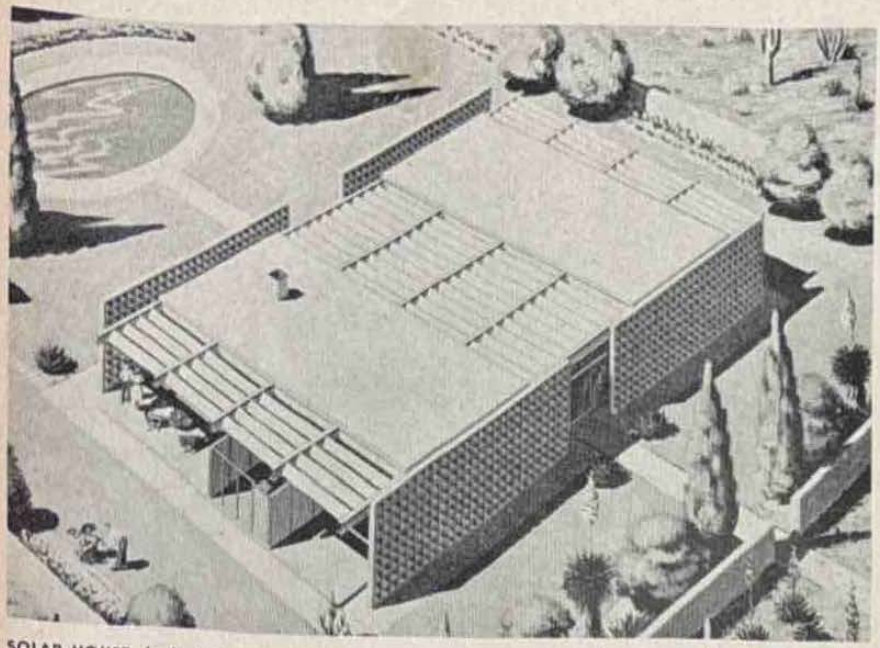
3. The basic long range problems of the industry to be solved by research include:

a) Provision of community facilities.
b) New sources for mortgage financing.
c) Improved marketing and distribution of materials.
d) More scientific facts on the subject of obsolescence and decay.
e) Improved trade-in systems.
f) More facts about skilled labor sources and on site productivity.

4. In the field of costs, research must provide information leading to better houses at lower cost, or our very political system is in jeopardy.

5. Specific objectives of housing research should:

Continued on p. 25



SOLAR HOUSE, built from prize-winning design by Peter R. Lee of Minneapolis, consists of two distinct sections, separated by central court and connected by glass-enclosed walkway. Concrete masonry screen walls along east and west sides shade actual walls of house from sun's direct rays. Insulation in inner walls and ceilings of house, combined with built-up wooden roofs, offer protection from summer sun.

Solar house makes debut in Arizona

America's first house designed to receive all of its heat requirements from the sun was opened to the public April 13 in Paradise Valley, seven miles from Phoenix.

The structure will utilize only mechanical equipment now generally available through commercial sources. The system as used in this house can be employed effectively in two-thirds of the U. S., reports John I. Yellott, executive vice president of the Association for Applied Solar Energy, project sponsor.

Though a dozen other structures across the nation use solar energy in various ways, this is the first to rely on the sun completely for its year-round heat requirements. Solar energy will provide winter heat for the house and swimming pool and will heat the domestic water supply throughout the year. Heat is stored during sunny periods to use in cloudy spells.

The house incorporates a unique solution to the related problem of minimizing the cooling load during the summer. Solar collectors are utilized as shade-producing louvers. Integrating the swimming pool with the air conditioning circuit allows the heat pump to operate with maximum economy in both winter and summer.

The Arizona house gathers solar energy by means of a series of collector panels which are turned to face the sun each day. At night and during the summer, they are rotated so that their aluminum-clad backs face the sky. Water circulated through copper tubes in the collectors is heated and stored in an underground tank, providing a reserve of heat for use at night and during cloudy weather. This heat is transferred into the house as needed by coils mounted on the intake faces of two standard air-to-air heat pumps.

A double-floor system is used in which conditioned air circulates under each room before entering the house through perimeter grilles. This combination of radiant and convection heating and cooling will result in comfortable conditions throughout, with minimum heat loss in winter and heat gain in summer.

The solar heating system transfers heat to the swimming pool during the winter by means of a grid of copper pipe buried in the bottom of the pool. During the summer, the pool is used to cool the water from the storage tank, after this water has been used to precool the air passing over the heat pump condenser. This integrated system enables the swimming pool to be used as a reserve for heat pump use during the winter and to minimize the cooling bill during the summer.

An improtant feature of the house will be a complete set of instruments by which every aspect of its performance can be measured, including the amount of solar energy which falls on the house, the amount of heat picked up by the collectors and the temperatures at significant locations on, in and under the house. Power used by the heat pumps, water circulators and fans also will be recorded.

"We are definitely past the experimental stage in solar heating," Yellott declares. "The combination of 1958 model solar energy collectors with standard heat pumps makes possible the utilization of the sun's energy to provide comfort in both winter and summer."

Use of solar energy in heating is important not only to reduce heating bills but also because fossil fuels—gas, oil and coal—already are approaching exhaustion in areas of the world such as England and are scarce in other nations such as Greece and Turkey, Yellott points out.

Actual construction of the house, which cost $30,000 exclusive of the solar heating system, was supervised by the solar energy committee of the Phoenix Association of Home Builders, headed by Bernard Young of Scottsdale. Interior decoration was handled by Houston Barton of Phoenix.

Western architects cited for religious buildings

Five of the 15 awards in the annual institutional architectural competition sponsored by Catholic Property Administration magazine have gone to West Coast architects.

Comeau & Brooks of Encino, Calif., won two citations for their design of St. Lawrence Martyr School and Rectory, Redondo Beach: a first place for an elementary school accommodating 400 or more and a distinctive design award for a small rectory.

A first place also went to Gene Verge and R. N. Clatworthy of Los Angeles for Providence High School (accommodating no more then 750), Burbank. Distinctive design award winners: Vincent G. Raney of San Francisco for St. Hilary Church (seating no more than 400), Tiburon; and Lea, Pearson & Richards of Tacoma for Aquinas Academy (high school accommodating no more than 750), Tacoma.

The four-man jury based its selections on how well the designs offered solved any particular problem or filled a specific need.

Public vs. private openings

. . . A tale of two letters

A "strong protest" lodged by a contractors' association concerning secretive bidding procedures of a supermarket chain has resulted in a reply by a company vice president who intends to recommend adoption of public openings. (Carbon copies of both letters were sent to PA&B.)

Colton Harper, manager of the Seattle Chapter, AGC, in a letter to the Oakland headquarters of Safeway Stores, Inc., referring to the firm's bid letting on a distribution center in Bellevue, pointed out "that 10 days' time elapsed from the time of the opening until the announcement of the award. Throughout this 10-day period a large segment of the construction industry of this area could not schedule its bidding on other projects since it did not know if it were to do Safeway's work or not."

Harper's letter continued: "It has been our policy to support public bid openings in all cases. We believe that if all bidders are aware of their position in the bidding at a given time when all bids are opened at once, then goodwill toward the owners will far outweigh any benefits that might be derived by your present policies."

The Answer: Vice president G. T. Burroughs' reply read in part: "While I still prefer public openings, I recognize there are certain advantages to private openings and that private openings are not uncommon throughout the country. One of the problems, as you well know, of public openings is the fact that usually on most major jobs several alternates are called for and at times the alternates selected would determine the bidder. Frequently, one of the bidders will submit an alternate which was not in the plans and specifications but which is acceptable to us. With private openings, we can request the other contractor to submit a revised bid including the alternate without putting the low bidder at a disadvantage by disclosing his bid. With public openings the other bidders would have an opportunity to 'sharpshoot' at the low bidder. This, of course, would be to our advantage rather than the contractor's.* Where alternates are involved, it is frequently impossible to determine the low bidder until the alternates have been determined. Due to this fact, it is seldom possible, at the time of the opening, to advise any particular contractor that he is the low bidder.**

"You criticized the 10 days' time that elapsed from the opening until the announcement of the award. I do not feel that this is an unduly long time. In this particular case, a public opening would have determined the low bidder immediately as the successful bidder was low regardless of any combination of alternates. However, this is the first big job we have had for some time where this was the case . . .

". . . in spite of some obvious objections to public openings, I still prefer them and intend to take the matter up again at our next executive meeting and recommend the adoption of such a policy."

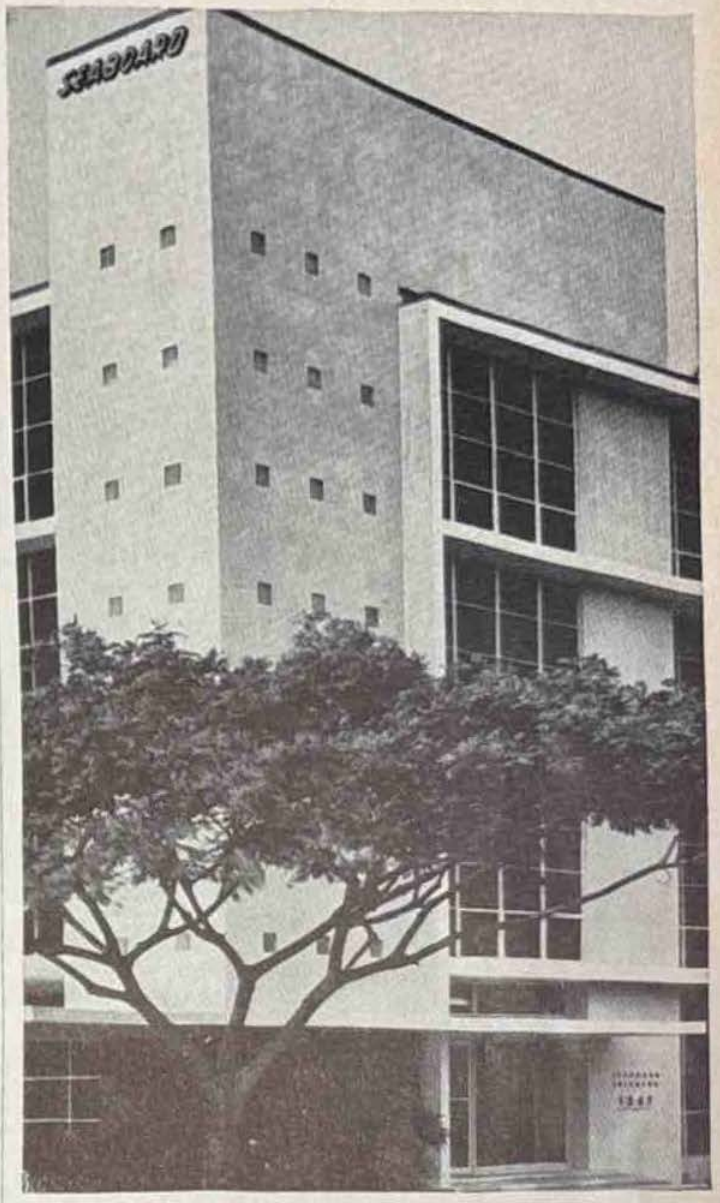
Editors' note

*We feel that the contractor who submits an unspecified alternate which is acceptable to the owner should be given the advantage of his ingenuity without further bidding.

**Far more complicated jobs than stores are subject to public openings. Schools and other institutional projects are opened publicly, have many alternates and the field usually is narrowed to two or three contractors right at the time of opening.

PA&B wishes to lodge its own protest against a few private enterprises such as Safeway Stores which fail to cooperate with news sources in releasing information on construction projects.

Seaboard Finance Co., Honolulu, T.H. Merrill, Simms & Rochrig, Architects



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KRAFTILE VENEER

Niles, California

Oregon dedicates new architectural hall

RESEARCH LIBRARY (left), consisting of 3,000 sq. ft., is connector between remaining portion of old building and new architectural unit (below) on Eugene campus.

The School of Architecture and Allied Arts at the University of Oregon has been occupying its new home since last summer, but the building was dedicated in a formal ceremony April 12. And the night before Dean Pietro Belluschi of Massachusetts Institute of Technology spoke at a banquet to honor the occasion (too late to be reported in this month's PA&B).

Known as Lawrence Hall after the late Dean Ellis F. Lawrence, who organized the school in 1916 and served as its first head until 1945, the structure consists of more than 70,000 sq. ft. of floor space, divided almost equally into new building and a rehabilitated portion. The former houses the architectural division of the school; the latter is used for the studio needs of painting, drawing, art education and applied design.

The new portion is a concrete frame with aluminum skin exterior. In the buildings are facilities for exhibition space, public review rooms, large drafting rooms and studios. Outdoor studio space also is provided.

Original design and preliminary sketches for the project, as was the final landscape plan, were developed by a committee of the school faculty, headed by Dean Sidney W. Little.

Dean explains plan to revamp U.C. architectural college

Proposed creation of a College of Environment Design at the University of California would make the College of Architecture a department, along with city and regional planning and landscape architecture.

Dean William F. Wurster, appearing at a meeting of the directors of the California Council, AIA, in Berkeley, emphasized that formation of the new college would not affect the architectural curriculum or degree. Aside from internal administrative advantages, principal benefit would be a closer relationship and understanding between students of the three professions involved, he explained.

Wurster's appearance was prompted by a letter from the council to U. C. President Robert Gordon Sproul requesting information and asking that the architects have an opportunity to express their opinions before the reorganization takes place. It was noted at the meeting that the proposal has been under discussion for eight years without officially coming to the council's attention.

The board voted to establish a liaison committee whose first task will be evaluation of the reorganization plan.

First CSI chapter in N.W. elects officers

Newly formed Construction Specifications Institute, Puget Sound Chapter (only one in the Northwest), elected officers March 18 at a meeting attended by some 40 members in Seattle.

President Wallace W. Macdonald, architect with the office of John W. Maloney, Seattle, will be assisted by vice president Donald E. Paine, architect with Wohleb & Wohleb & Associates, Olympia, and secretary-treasurer Ralph E. Yoder, regional director of the SCPI Pacific Northwest Brick & Tile Association, Seattle. Directors are Clarence H. Irwin, architect with the Maloney firm (three years); A. Dallas Hagan, U. S. Gypsum Co., Seattle (two); Kenneth C. Helms, architect with Jones, Lovegren, Helms & Jones, Seattle, and James W. Mosman, architectural engineer with the 13th Naval District, Public Works Design Division, Seattle (one).

CSI serves the specification writers whether they be architect, engineer, contractor, building materials manufacturer or student, says Macdonald. Main objective, he adds, is to provide common ground for discussion and thought on ways and means of improving the form and content of specifications as applied to the construction and allied industries.

The national organization has headquarters in Washington, D.C.

OFFICERS of Puget Sound Chapter, Construction Specifications Institute, are Ralph E. Yoder, secretary-treasurer; Wallace W. Macdonald, president; Donald E. Paine, vice president.

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BUILDING PERMITS

First quarter shows $36.5 million gain

Building permit volume for the first quarter in the five western states totaled $601,062,420, a good $36½ million increase over the same period last year. Most of the gain was in California where the dollar volume rose $34 million over 1957. Washington chalked up a $5 million increase and Idaho was just $37,219 higher. Oregon dropped $1 million and Montana, $2¼ million.

First quarter tabulations by states:

	Jan.-Mar. 1958	Jan.-Mar. 1957
Calif.	$497,548,885	$462,843,815
Oregon	26,625,422	27,602,749
Wash.	69,127,486	63,934,569
Mont.	3,142,764	5,700,687
Idaho	4,617,863	4,580,644

For the month of March, the five-state total climbed to $249,616,307, highest monthly total since July 1956 and $29¾ million more than last March. California picked up $31¼ million; Oregon, $1½ million; and Idaho, $118,108. Washington and Montana each dropped $1½ million.

The big increase in California was due mainly to exceptionally large totals for several permit agencies.

ANALYSIS OF TYPICAL AREAS — MARCH

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	71	$ 1,403,890	16	$2,533,725	2	$ 59,000
King County	452	5,018,080	48	711,710	4	599,000
Seattle	528	2,733,625	172	3,182,268	4	895,000
Tacoma	128	693,025	31	250,215	2	322,000
Los Angeles County	1681	14,281,879	299	2,802,208	28	540,050
Orange County	216	2,645,164	18	122,833	2	1,500,000
Sacramento County	562	5,430,621	70	747,525	8	539,032

Building Permit Totals for 116 Western Agencies for March

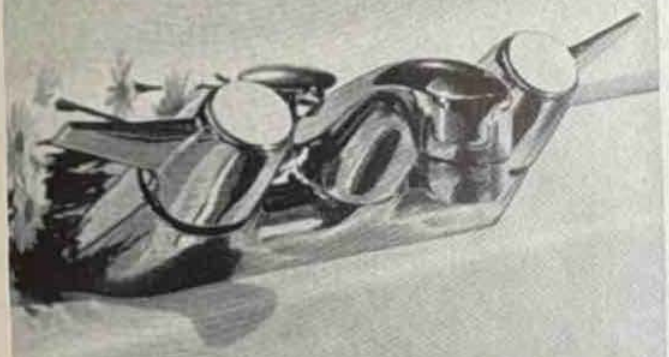
CALIFORNIA	Mar. 1958	Feb. 1958	Mar. 1957
Alameda County	$ 1,075,200	$ 556,650	$ 3,082,343
Anaheim	3,998,897	2,788,886	5,432,565
Bakersfield	601,935	842,713	667,936
Burbank	643,930	670,479	1,002,726
Contra Costa County	2,791,774	4,674,958	1,919,491
Fresno	2,295,481	1,446,680	2,106,950
Fullerton	1,064,615	1,045,945	1,131,910
Glendale	1,319,298	1,318,305	1,053,930
Inglewood	926,399	854,745	788,420
Long Beach	7,106,745	5,878,285	4,368,675
Los Angeles	64,050,228	35,266,382	51,937,409
Los Angeles County	18,398,442	13,344,794	31,184,304
Oakland	30,790,556	1,509,451	2,187,768
Ontario	872,149	465,823	263,272
Orange County	4,443,392	2,484,841	8,419,389
Palo Alto	7,901,045	543,919	832,072
Pasadena	2,405,278	1,024,951	1,612,744
Pomona	1,592,201	386,604	1,037,199
Richmond	484,572	305,572	1,136,373
Riverside	1,087,832	1,267,757	1,546,283
Sacramento	1,711,695	1,383,584	1,531,971
Sacramento County	6,791,624	5,449,402	5,791,174
San Bernardino	1,486,814	1,337,814	1,837,876
San Bernardino County	5,065,483	3,258,089	8,158,364
San Diego	9,384,989	24,288,172	9,750,221
San Diego County	5,722,600	4,262,000	4,168,200
San Francisco	13,888,137	3,318,386	7,254,487
San Jose	4,023,278	3,247,545	3,132,895
San Mateo	687,823	474,547	1,023,874
San Mateo County	1,934,945	642,776	2,385,619
Santa Ana	688,998	1,592,456	765,318
Santa Monica	1,786,411	908,795	1,854,270
Stockton	603,954	444,848	4,965,782
Sunnyvale	1,238,510	1,540,510	2,405,200
Torrance	2,390,431	1,578,736	1,235,015
West Covina	869,760	957,390	2,034,755
TOTAL	$211,225,421	$131,362,790	$180,012,780

OREGON	Mar. 1958	Feb. 1958	Mar. 1957
Albany	$ 75,300	$ 79,500	$ 134,650
Astoria	3,575	10,950	37,942
Baker	59,300	69,540	9,275
Bend	277,509	74,650	148,505
Coos Bay	158,110	46,775	141,895
Corvallis	352,770	177,800	98,400
Eugene	465,145	913,352	268,820
Grants Pass	122,225	59,095	56,985
Gresham	82,200	50,500	85,500
Hillsboro	115,085	26,601	360,584
Klamath Falls	121,367	27,550	132,146
LaGrande	43,900	21,382	16,440
Lane County	1,152,674	527,517	718,614
Medford	406,958	262,585	173,737
Multnomah County	1,658,067	2,012,425	1,466,760
North Bend	30,175	28,370	25,290
Oregon City	35,875	21,790	24,075
Pendleton	105,425	110,900	173,775
Portland	5,212,865	3,610,650	3,675,225
Roseburg	44,489	14,520	28,161
Salem	411,456	192,080	959,264
Springfield	50,035	53,155	660,820
The Dalles	99,226	26,300	74,765
TOTAL	$ 11,083,731	$ 8,417,987	$ 9,471,628

WASHINGTON	Mar. 1958	Feb. 1958	Mar. 1957
Aberdeen	$ 157,196	$ 53,180	$ 123,649
Anacortes	89,400	137,210	80,925
Auburn	59,720	380,400	107,450
Bellingham	796,949	90,734	282,928
Bremerton	125,555	84,205	126,713
Centralia	110,045	33,891	148,434
Chehalis	19,960	2,530	23,502
Clarkston	48,060	184,607	42,881
Ellensburg	100,085	30,385	31,886
Ephrata	28,875	152,388	991,444
Everett	900,175	138,593	329,963
Kelso	46,100	53,700	46,509
Kennewick	29,620	32,300	109,800
King County	6,347,830	6,404,370	7,949,320
Kirkland	122,250	83,250	116,050
Longview	238,286	96,706	143,350
Moses Lake	58,739	1,593,400	138,838
Olympia	315,966	186,234	196,332
Pasco	659,360	115,550	85,145
Pierce County	1,089,453	1,422,509	1,280,714
Port Angeles	35,075	5,600	39,750
Puyallup	48,050	179,600	82,825
Ritzville	Nil	25,000	26,000
Seattle	6,920,114	9,463,046	4,087,725
Shelton	82,700	41,050	13,350
Spokane	1,264,529	1,063,602	2,870,530
Spokane County	1,572,046	1,159,625	2,086,179
Sumner	35,500	19,400	2,200
Tacoma	1,521,922	981,925	2,661,295
Vancouver	408,610	295,791	409,543
Walla Walla	64,750	270,650	184,435
Wenatchee	93,105	644,800	263,850
Yakima	265,340	453,935	962,780
TOTAL	$ 23,655,365	$ 25,880,166	$ 25,319,229

MONTANA	Mar. 1958	Feb. 1958	Mar. 1957
Billings	$ 278,700	$ Nil	$ 806,000
Bozeman	45,500	Nil	44,000
Butte	15,814	135,851	122,121
Glasgow	45,900	23,000	11,450
Glendive	53,150	5,430	38,800
Great Falls	246,758	644,105	1,022,437
Helena	97,350	185,850	313,260
Kalispell	107,500	15,900	61,674
Lewistown	9,700	4,000	8,000
Livingston	10,800	2,016	36,880
Miles City	32,733	13,512	56,413
Missoula	106,880	61,225	49,700
TOTAL	$ 1,050,785	$ 1,090,883	$ 2,571,622

IDAHO	Mar. 1958	Feb. 1958	Mar. 1957
Boise	$ 297,129	$ 148,375	$ 354,021
Caldwell	28,165	47,725	67,155
Coeur d'Alene	117,920	45,750	90,700
Idaho Falls	1,030,020	141,300	775,990
Jerome	15,985	43,500	40,350
Lewiston	360,658	108,717	427,273
Nampa	190,340	67,950	112,956
Payette	17,400	9,000	2,973
Pocatello	177,203	143,150	296,344
Sandpoint	152,200	19,000	750
St. Maries	3,800	6,500	13,500
Twin Falls	210,185	227,600	309,873
TOTAL	$ 2,601,005	$ 1,008,567	$ 2,482,891
GRAND TOTAL	$249,616,307	$167,760,393	$219,858,154



NEW BEAUTYWARE BRASS FITTINGS
—a new and different concept in plumbingware fittings with smooth sculptured lines in gleaming chrome-plate. If desired, interchangeable color inserts can be matched to any of the Briggs colors.

A complete line of plumbing fixtures for residential, commercial, and industrial buildings.

Briggs ideas that help sell more homes

An Early American bathroom achieved with contemporary materials

Imaginative use of modern materials can make your home a "stand-out"! This Briggs Beautyware bathroom, for instance, combines modern wall paneling, tiles and flooring to create an eye-catching Early American effect. And, of course, the key to this design is Briggs Beautyware—as contemporary as the materials used. Smoothly contoured lines, newly-designed brass fittings and six compatible colors—Sky Blue, Sea Green, Coral, Sandstone, Pearl Gray and new Autumn Yellow—allow full freedom of expression. Give your homes added appeal, added distinction. Build with Briggs Beautyware.

BRIGGS MANUFACTURING COMPANY • WARREN, MICH.

BRIGGS

BEAUTYWARE

Highway program: unguided missiles, unbridled building

Scores of speakers shared the rostrum when the National Association of Home Builders met in Chicago for its annual convention earlier this year. Here is a roundup of some of the papers that may have got lost in the shuffle, but are worthy of at least brief mention.

Morals and Money: Carl Feiss, planning and urban renewal consultant to a number of cities and firms in the East, pulled no punches in analyzing the important question of the relationship between our national highway program and housing.

"I am talking to you about this problem because all of these people who are writing on the subject of urban sprawl and unplanned metropolitan growth and the slums of the future are really afraid of you," he explained. "They are afraid of what you are going to do as home builders to make the complex American cities and suburbs even more complex. There is no confidence that you have formulated by yourselves adequate standards of development and sufficient public responsibility to make it possible to count on you, under your own steam, to build the kind of community and the kind of nation that we believe in, and want, and that we know can and should be built.

"What you are seeing happen is that specialists in the field of community development and management are beginning to prepare safeguards, protective devices, plans and programs directed toward some kind of logical order. They know that without such devices further chaos is inevitable, followed by deterioration and ultimately slums and all of the familiar problems."

Feiss explained that he was not on the platform to predict dire results, but rather to point out the fact that "we face a shameful situation where the government which we elect in our free society finds it is necessary to protect its citizenry from the license of free enterprise. I use the word 'license' in terms of free-wheeling and irresponsible enterprise as against that type which is mature and responsible and free as well."

The planning consultant made it clear that the new highway program will open up new land for development, adding: "I don't question for one moment that the program is going to be a money-maker for the home builder. I don't question that smart operators are going to keep their eye out for every interchange along all the major routes and will begin to buy up land as soon as the cloverleafs have been staked out. This is going to be a quick business for the farmer and it's going to be a good quick business for the home builder. The great question is: Is it going to be good business for anyone else, and in particular, is it going to be good business for the United States of America?"

Highways and Byways: Edward H. Holmes, assistant commissioner for research, Bureau of Public Roads, in discussing the need for coordination of highway plans with city and regional programs, asked the home builders to support the American Assocation of State Highway Officials and the American Municipal Association which have created a joint committee to work in this field.

"Two other committees are important in this area and also deserve wide support," he added. "One is the National Committee on Urban Transportation which is just now releasing a guide entitled 'Better Transportation for Your City'—an excellent reference supported by a series of procedural manuals prepared by the committee with the aid of over 100 experts in this field. The other is the Urban Research Committee of the Highway Research Board which seeks to encourage fundamental research in the role of the city in our future.

HOUSING PRODUCTION FIGURES
(for the U. S. since 1940)

Year	Total Private Starts
1940	529,600
1941	619,500
1942	301,200
1943	183,700
1944	138,700
1945	208,100
1946	662,500
1947	845,600
1948	913,500
1949	988,800
1950	1,352,200
1951	1,020,100
1952	1,063,500
1953	1,068,300
1954	1,201,700
1955	1,309,500
1956	1,093,900
1957	989,100

Highways and Houses. Harry A. Bowell Jr., builder and developer of Washington, D. C., emphasized that what is needed immediately in this mushrooming America is a "marriage" of land planners, highway planners, home builders and city officials to coordinate orderly growth of the United States.

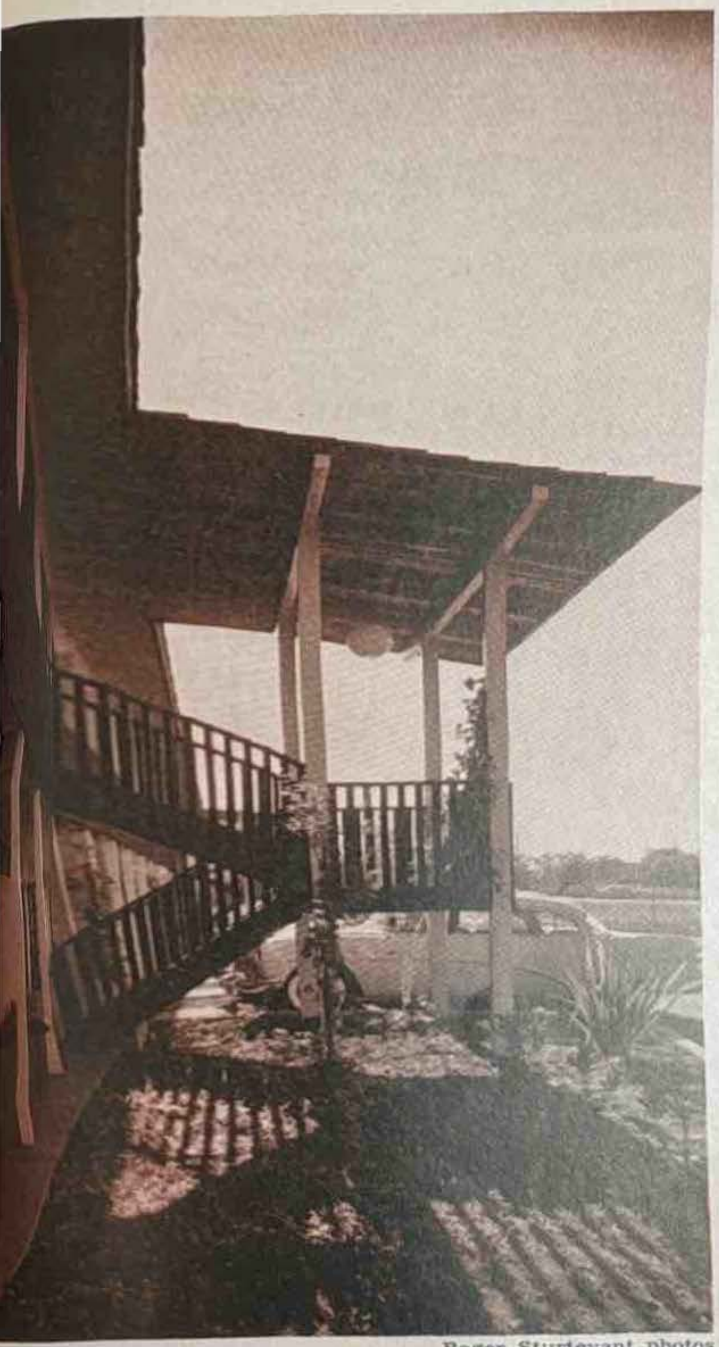
"The highway program is important to every element of our society," he commented. "Builders, therefore, are provided with unique opportunities for responsible leadership. But our responsible builders must point out that both builders and officials concerned with community planning are going to suffer if the present lack of coordination among all persons with a vital stake in community growth is allowed to continue.

"Land planners have to understand builders' reasons for their suspicions. First, present disagreements between land planners, highway planners and other departments of city government are almost amounting to a public scandal in many sections of the nation. Second, everyone knows that community plans and zoning requirements too often are not developed for the best functional use, but instead are designed to restrict development."

"Strip Trees" Acts. Edward R. Carr of Washington, D. C., past president of NAHB, criticized builders who engage in "strip trees" acts, stating that trees are a greatly overlooked asset by many of his colleagues.

"You can make more money and improve your public relations tremendously by saving trees in your new housing developments," he continued. "For years I have been preaching this doctrine up and down the entire country and practicing it as well. I cannot understand why more builders do not realize that trees are an economic asset. People like trees. Paste that simple statement in your hats."

Carr also gave a tip to the builder on a method for getting the most out of wooded lots for the smallest investment. He suggested that they leave standing all the trees in the rear of each lot. In that way, two back-to-back lots can provide a goodly strip of wooded land and in a development of 50 to 100 houses this could form a continuous "panel" of trees that would enhance every home in the subdivision.



Roger Sturtevant photos

Privacy, good taste for tired travelers

Dinah's Motor Hotel
Palo Alto, California

CAMPBELL & WONG
Architects

ECKO, ROYSTON & WILLIAMS
Landscape Architects

ROY GIORGI
General Contractor

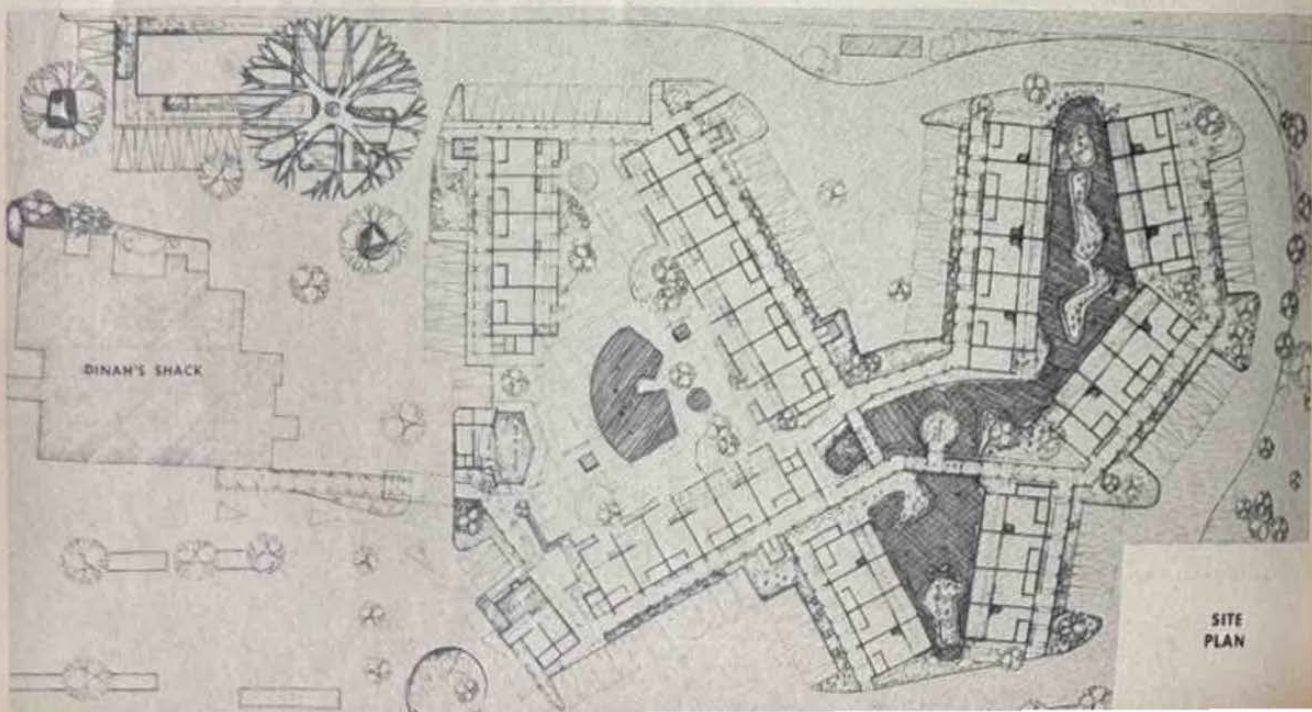
REDWOOD SLATS provide shadow and light effects as well as privacy for individual units. Overhangs protect entrances.

DINAH'S MOTOR HOTEL

FORTUNATE indeed is the motorist who hits upon Dinah's, for its architectural concept is based on the premise that the overnight guest should have as much privacy as is feasible, a pleasant environment and a maximum of service facilities. The site adjoins Dinah's Shack, two miles south of Stanford University on the San Francisco's Peninsula.

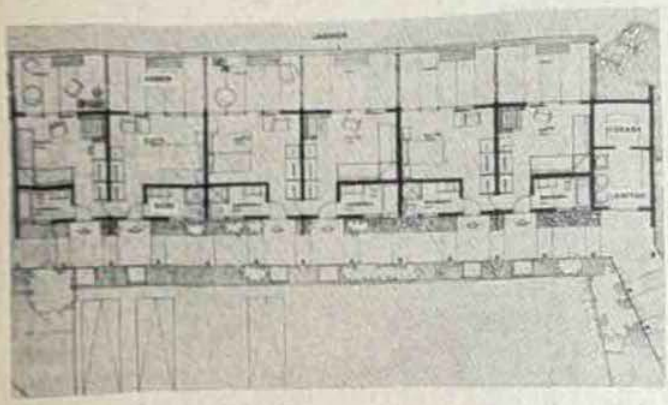
On this site, 300 ft. back from the noisy El Camino Real, the architects proceeded to translate the wishes of their clients—Ray Handley and Ray Renault—who sought to produce a motel that would be the equivalent of a fine, luxury type hotel and who were willing to sacrifice the sales and advertising potentials of being located directly on the highway. Specifically, they wanted to utilize the space adjacent to the restuarant to provide small, private gardens as well as public grounds that would be completely free of automobile traffic.

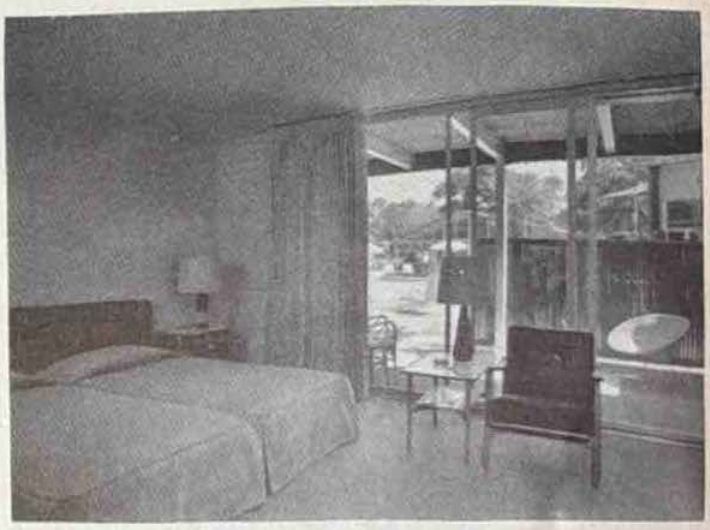
The result is an interesting combination of California redwood and concrete, with skillfully integrated landscaping everywhere one looks. Majority of the rooms ($8-12 for singles, $10-14 for doubles, $12-16 for twins, $22-32 for two-room, fireplace suites) overlook a series of lagoons, while the others have a view of a heated swimming pool. Entry side of individual units opens to a parking area but is separated from the patio side to help insure freedom from noise and traffic. Double walls and doors and concrete upper decks provide soundproofing; covered walks lead to the restaurant and poolside coffee shop.



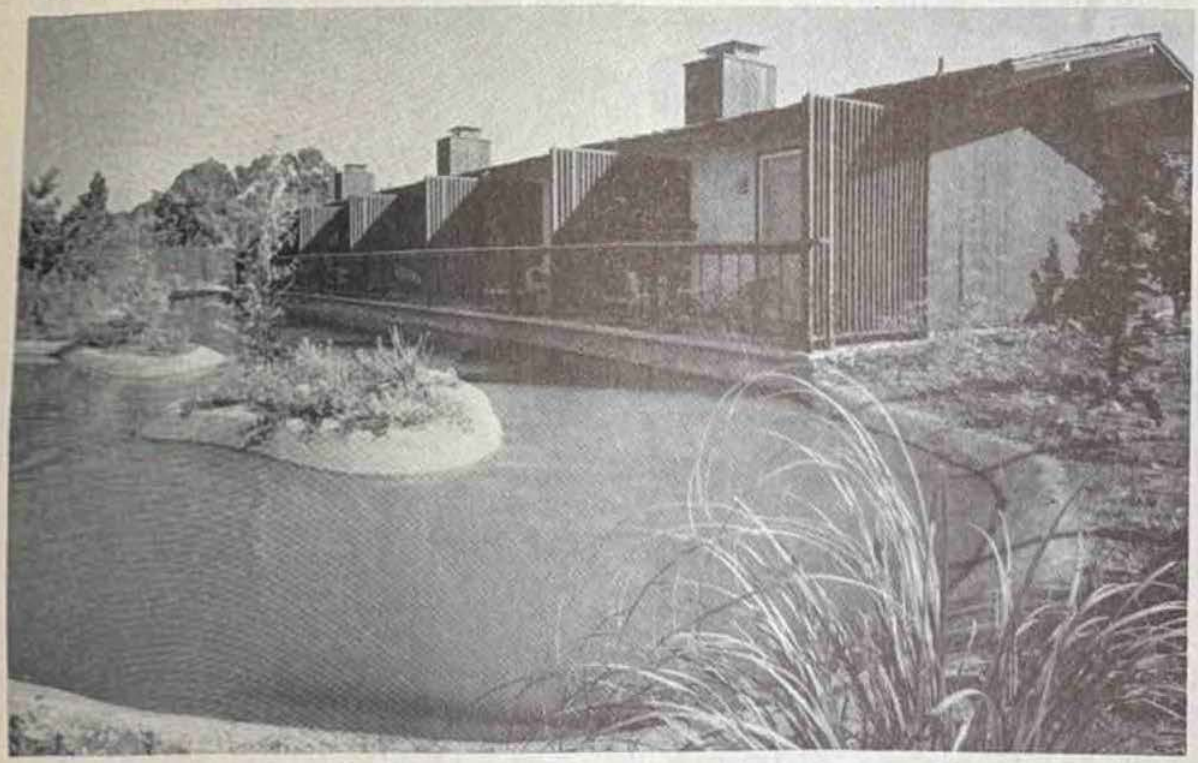
SITE PLAN

SECOND FLOOR UNITS have balconies overlooking 65-ft. free-form swimming pool, serviced by coffee shop. Typical room has sliding glass doors, wall-to-wall carpeting, Belgian linen draperies, Danish imported furniture, including specially designed desk-drawer.





MAJORITY OF ROOMS are surrounded by series of lagoons and extensive typical California plantings.



ALTERNATING PATTERN of wide and narrow spandrels, columns expresses seismic design.

U. S. A

400 beds in Alaska

Two noteworth

5040th Hospital
Elmendorf Air Force Base, Alaska

•

SKIDMORE, OWINGS & MERRILL
Architects

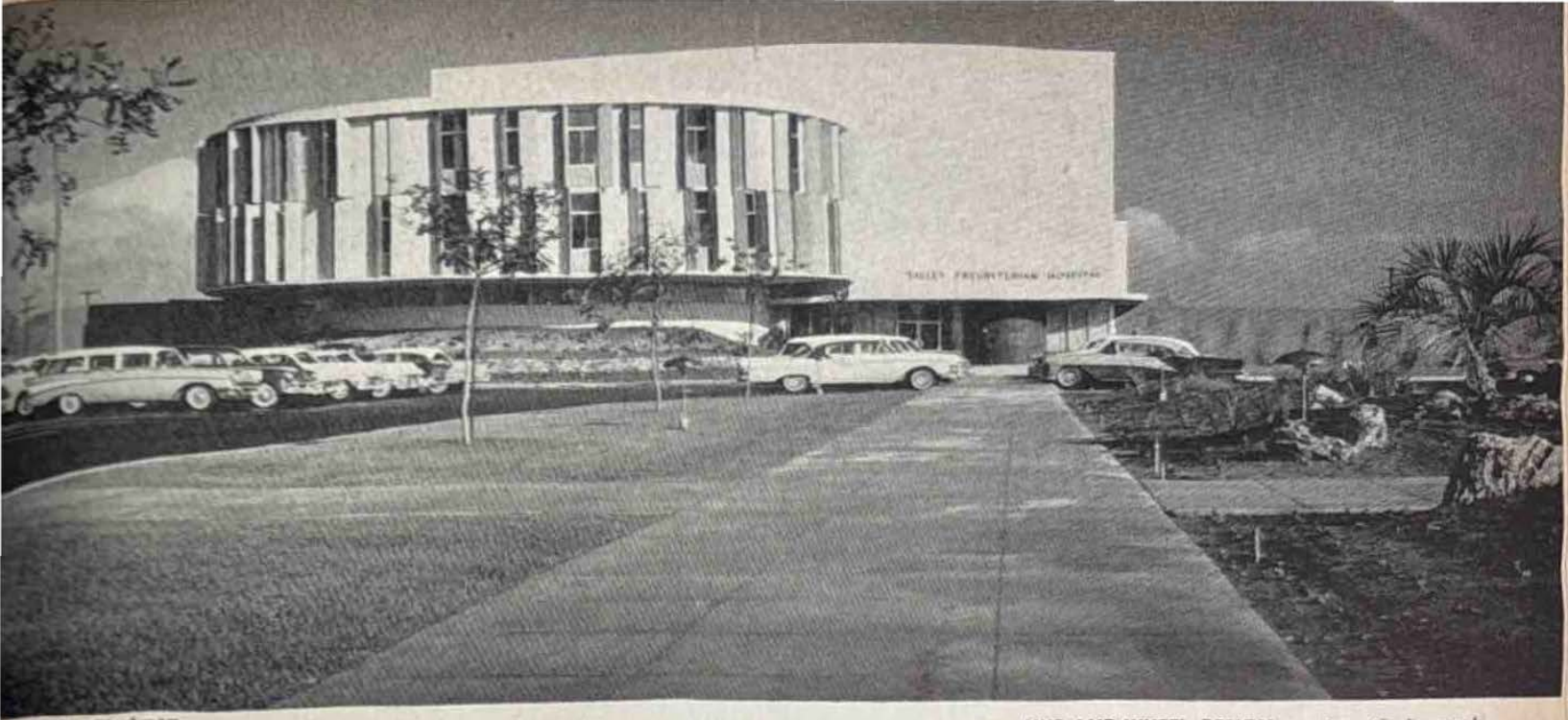
J. C. BOESPFLUG CONSTRUCTION CO.
General Contractor

IN A SETTING of spruce and birch, with a view of the nearby Chugach Mountains, this $10 million hospital at an air force base adjoining Fort Richardson, near Anchorage, ranks with the finest in the states. (There's even a helicopter port for patients brought in from outlying sections of the Territory.) The project was built under the supervision of the Alaska District, Corps of Engineers, as a 400-bed facility, its core areas having been planned for eventual expansion to 1,000.

The eight-story building is constructed over a steel framework with concrete and concrete block walls, employing "crumbleproof joints" between the three wings as a guard against earthquakes. The alternating pattern of wide and narrow spandrels and columns is an expression of the seismic design of the structural frame, lateral resistance being provided by the larger members. Exterior walls are insulated with cork which is carried back 4 ft. on each floor slab to prevent freezing of the slabs.

The hospital can accommodate just about every need—surgeries; medical departments; eye, ear, nose and throat clinics; obstetrical, pediatrics and orthopedic wards; laboratories; X-ray rooms; library; diet kitchens—and one entire floor is devoted to neuropsychiatric treatment. There are extensive outpatient facilities as well as a recreation and rehabilitation center on the lower floor (a modified daylight basement). The latter is especially important because of the lack of other recreational opportunities in the area and because patients stay longer than they ordinarily would, since many come from remote regions. The spacious, colorful dining area, on the sloping side of the site, opens onto an outdoor plaza. Post exchange and barber shop also are on this level.

Exterior columns, spandrels and exposed concrete are a light gray; infilling panels of concrete block are a darker blue-gray. The basic neutral interior scheme is accented with bright, primary colors. Materials include rubber, vinyl and asphalt tile flooring; metal stud partitions with gypsum lath and plaster; wood paneling and other more refined wall coverings in certain public areas.



Julius Shulman

HUB-AND-WHEEL DESIGN creates stir in medical circles, saves nursing time.

hospital projects

63 beds in California

Valley Presbyterian Hospital
Van Nuys, California

•

PEREIRA & LUCKMAN
Architect-Engineers

STEED BROS.
General Contractors

CONCEPT for the hub-and-wheel design of this 63-bed hospital was derived from efforts to reduce walking distance of nurses. Circular nursing units, which occupy the top two of four floors, avoid conventional dead ends found in line corridor arrangements and permit attendants to pass directly through nurse stations to the patients' rooms. The result: a 36% saving in nurse time and walking distance, say the architects, who also explain that the circular plan of the building is probably the best shape for resistance to bomb blast effect in a horizontal plane.

Arrangement of beds within patients' rooms allows each to have equal window area and light from the outside. Through use of adjustable cubicle curtains and external vertical louvers, each patient may control the amount of sunlight he desires without affecting his neighbor in the two-bed room. Every room has a television set mounted on the wall directly in front of the beds; remote pushbutton TV controls and separate bedside speakers also are provided.

The reinforced concrete structure was built for $1,523,690, or $16,636 per bed. Provision has been made for 52 medical and surgical and 11 obstetrical beds, along with 14 bassinets, in Phase 1 of a plan that will see eventual construction, again in the hub-and-wheel design (see sketch next page), and incorporation of 250 additional beds.

The hospital's lower level is devoted to kitchen area, storage space, electrical equipment room and the elevator lobby. First floor is laid out for general offices, records, central supply, two major operation and other specialized rooms, laboratories, pharmacy, mechanical equipment room and boiler room. Second and third floors are the nursing units, with a wing appended to the former and containing delivery, two labor, doctor and nurse rooms.

Floors are terrazzo in main public areas, oxichloride terrazzo in the surgical and delivery suites, asphalt tile in remaining areas; wainscot is glazed plaster coating; non-load bearing walls are metal lath and plaster. Gin D. Wong was in charge of planning and design; James S. Moore, project manager.

PHASE 2, repeating circular theme, will add 250 beds to hospital plant.

OUTLINE SPECIFICATIONS

Structure: reinforced concrete (Type 1); four stories; 82 beds.

Floor Finish: terrazzo in main public areas; oxichloride terrazzo in surgical and delivery suites; asphalt tile in remaining areas.

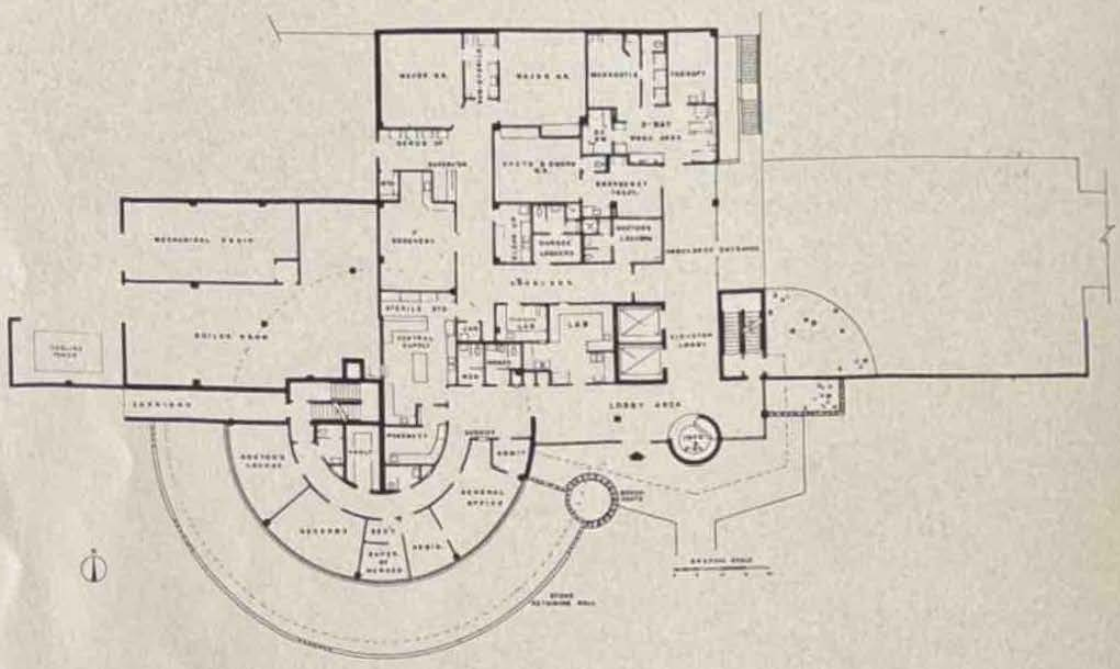
Ceilings: plaster.

Interior Walls and Partitions: lath and plaster (non-load bearing); glazed plaster coating (wainscot).

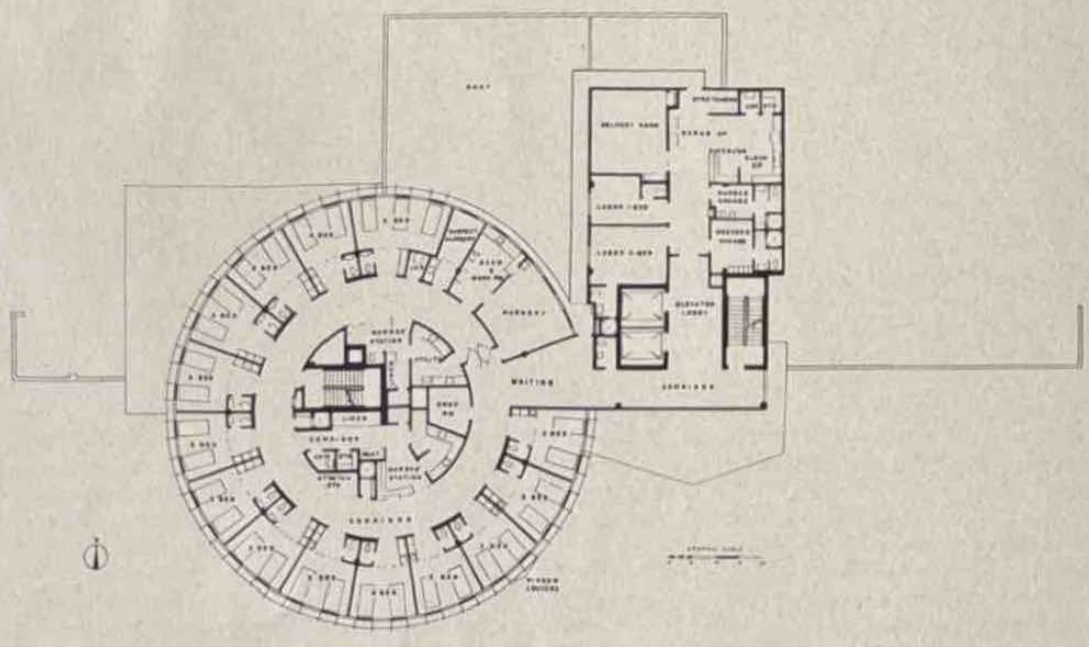
Total Cost: $1,523,690.

Cost per Bed: $16,636.

Date of Completion: January 1958.



FIRST FLOOR PLAN



SECOND FLOOR PLAN

MALONE COLLEGE
CANTON, OHIO
Arnold A. Peterson, Architect & Engineer • Cleveland, Ohio

MACOMBER V-BEAM and STEEL DECK in classrooms illustrate structurally sound, yet attractive appearance. Macomber V-GIRDERS were used for longer spans.

In addition to V-BEAMS, MACOMBER "nailable" LOAD-BEARING PARTITIONS were supplied for use in corridors of offices, classrooms and dormitories.

MACOMBER V-BEAMS

gave Malone College a stronger structure at lower cost!

6 new buildings completed in 240 working days

Macomber V-BEAMS and V-GIRDERS meant substantial benefits to Malone College and to the builder. The exclusive Macomber cold-formed chords and webs, besides providing extra structural strength, contributed an appearance factor that saved ceiling finishing costs and made lower ceiling heights possible without detracting from the pleasing architectural effect.

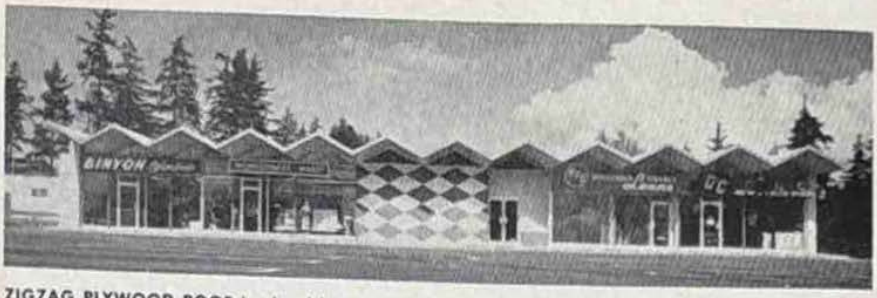
Macomber V-BEAMS are available for spans to 48 feet, V-GIRDERS to 96 feet. Quality control? — It's *continuous* at Macomber — by Pittsburgh Testing Laboratory resident inspectors.

Write for this Macomber V-BEAM Catalog containing loading tables, chord dimensions and designs, anchoring and bridging information. A new catalog on V-GIRDERS is also available.

MACOMBER

CANTON 1, OHIO

NAILABLE V-BEAMS | V-LOK STEEL FRAMING | METAL DECK AND SIDING | V-BOWSTRING TRUSSES | V-GIRDERS STEEL JOISTS



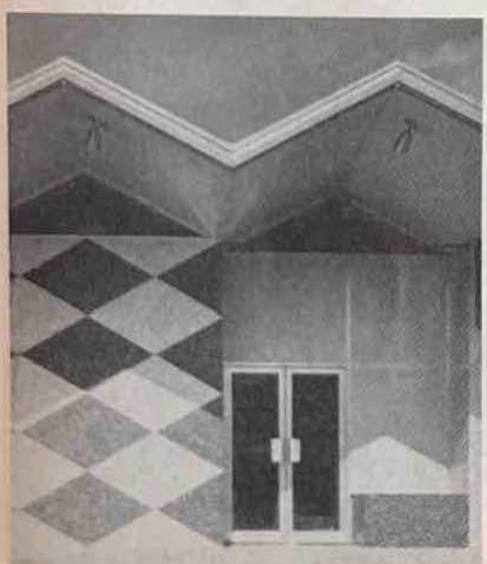
ZIGZAG PLYWOOD ROOF is visual key to store building, which has three concrete block masonry walls and front of plate glass and aluminum, with precast terrazzo panel adding color at restaurant entrance (closeup below). Underside of 10-ft. overhang is sheathed with plastic coated plywood and painted; interior is sheathed with plasterboard.

Wood folded plates roof 14,000 sq. ft. in nine hours

A ROOF developed with flat prebuilt lumber-framed plywood components functioning as a series of self-supporting inclined diaphragms is believed to be the largest application to date of the folded plate principle in wood. Although previously executed in concrete, this is the first time any architect has tried wood and plywood as a medium for the folded plate in series, free of any supporting element except at theoretical corner points.

Architect Jack N. Bryant, working with structural engineer Harvey H. Johnson, turned to plywood for economy and strength in an effort to develop a store building for a suburban shopping center in Burien, Wash., with more visual appeal than joist and beam construction.

Peaks and Valleys: Roof structure consists of 23 inclined planes, or diaphragms, 5 ft. 7½ in. wide, sloping in opposite directions and tied to each other to form a series of peaks and valleys 120 ft. 8 in. long from the front to the back of the building. The planes were built in sections on the ground, enabling the contractor, Powell Construction Co., to cover 14,040 sq. ft. in nine hours. In-place cost of the roof surfaces including materials, labor and erection time was 80 cents per square foot.



Structurally, these planes work in pairs as a series of 11 folded plates spanning 10 ft. each across the front and 26 ft. from beam to beam through the building. They serve as deep beams in collecting and transferring roof loads to the supports.

Plywood plates are supported on four conventional glued laminated beams running the width of the building, generally on 26-ft. centers. Beams are supported at the side walls by block piers and at intermediate points by 4-in pipe columns except at one corner where the roof rests on 6x6 wood posts used in conjunction with conventional wood floor framing to provide for a partial basement. Remainder of the foundation is concrete slab.

Diaphragms were prebuilt on the ground and lifted into position as paired panels by a crane. Bolted together at valleys and ridges, they form a continuous folded plate. Each tilted plane was made up of one plate 23½ ft. long, three plates 26 ft. long and one plate 18½ ft. long. The heaviest diaphragm plate weighed about 500 lb.

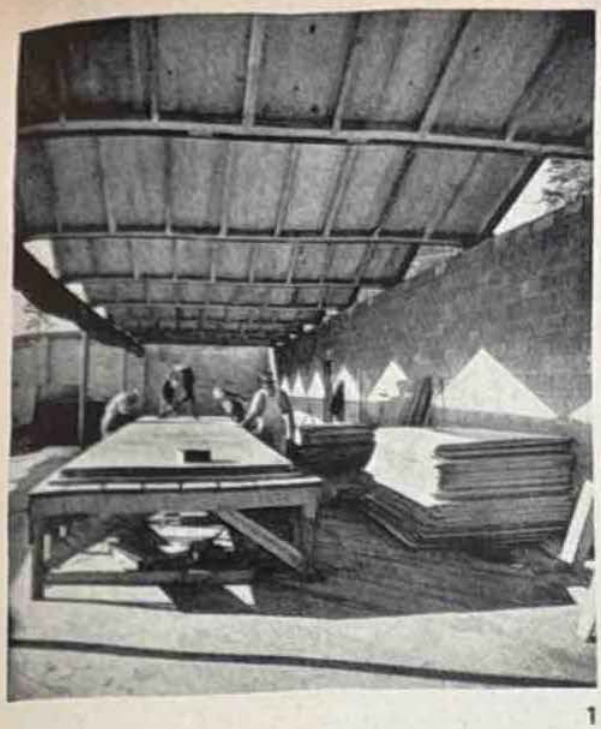
Plates were fabricated on the jobsite in jigs, using ⅝-in. fir plywood cut by the mill to a uniform length of 5½ ft.; the standard 4-in. width was utilized generally with some necessary variation.

Longitudinal framing with plywood consisted of a 4x4 at the top of the frame and a 3x4 at the bottom, or valley edge. The ridge cord was ripped at an angle so that it would butt squarely against the neighboring chord when the two plates were in position. Rippings were saved and placed in the valleys for a walk, or cast strip. Vertical members were 3x4s on 4-ft. centers, to which edges of the plywood were nailed, while a 2x4 in the center of each sheet served as a stiffener. Casein glue was applied to the framing members by roller prior to placing the plywood in position.

No Trick for Crane: A pair of panels, butted at the top and held temporarily by four double-head nails, was lifted by the crane and eased into position. Their corners concided with posts in the bays that stood 10 ft. apart, which meant that each half of a plate, 5½ ft. wide, was a 6/12 angle when in position. With ends bolted together, plates were joined in the valleys by a support bracket consisting of two ⅜-in. angle irons, 1½ ft. long, welded together. Corners of the four panels occupied such a bracket, held by lag bolt to beam, varying somewhat in design to meet the requirements of its position. For drainage purposes in the valleys, the roof was given a 1-ft. pitch from front to rear.

Only 105 minutes were required to roof the first bay, which was done early to provide shelter for fabrication work. Remaining four bays were roofed in seven hours.

A built-up roof consisting of three plies of fiberglass with a mineral surface cap was applied to the folded plate. The interior underside was sheathed with ⅝-in. plasterboard on 1x4 furring strips which also served as vent strips. The 10-ft. overhang at the front of the building was finished



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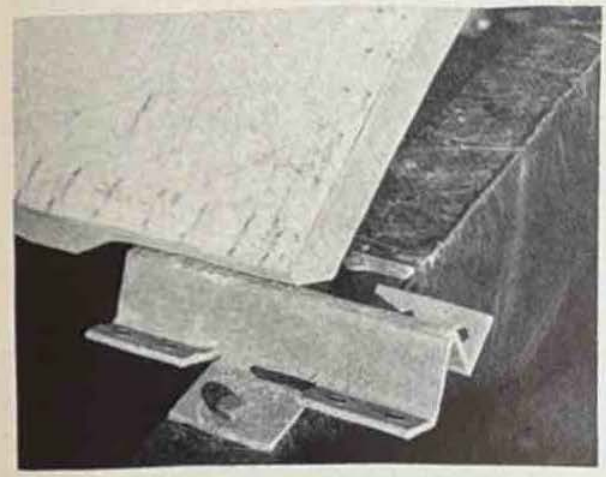

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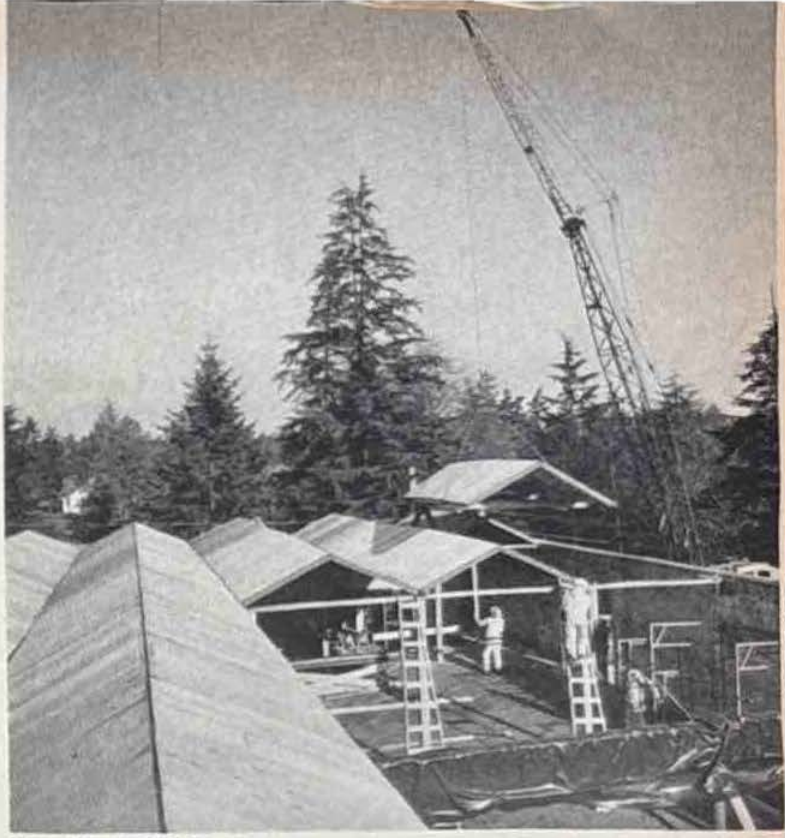


Vern Green photos

3

1. Panels cut to uniform length of 5½ ft. are placed on framing members. Nailing is done with air gun using 6d nails on two rows. Frequency is heaviest on end plates in diaphragms and lightest in center. Where cross members butt against purlins, triple-grip galvanized iron type C-anchor clip is nailed by hand.

2. Custom made support bracket in which four corners of four panels rest is fashioned from two ⅜-in. angle irons, welded together. Bolted to beam or plate, screws hold panel corners.

3. Panels are lifted in pairs, held together temporarily by four double-headed nails. Heaviest lift approximates 500 lb. Each panel is made up of five plates—one, 23½ ft.; three, 26 ft.; one 18½ ft.—and roofs one bay.

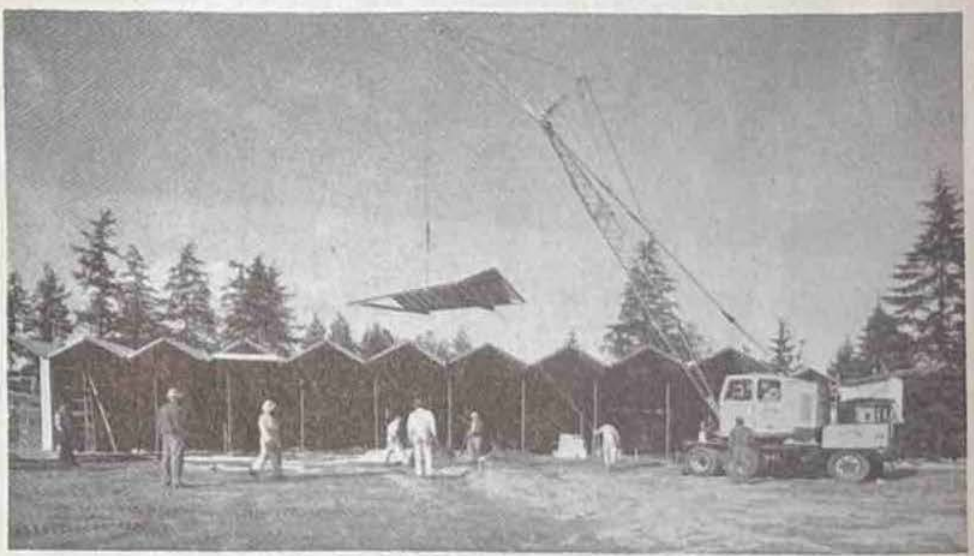
4. Building begins to take shape as folded plate roofing system progresses. Structure was built by resident contractor employing ordinary carpenters. Material costs amounted to 35.4 cents per square foot for ground coverage.

4

on the underside with resin overlaid ⅜-in. plywood and painted white.

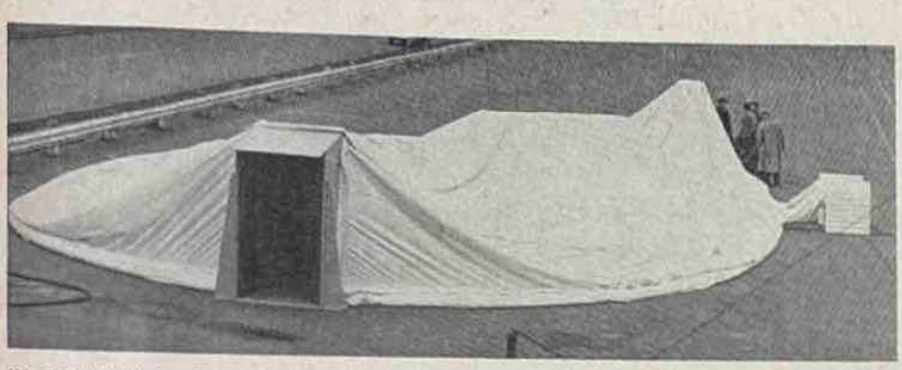
Just a Start: "Costs were comparable to the least expensive roof system necessary to accomplish the same thing structurally," the architect says, pointing out that materials for the folded plates amounted to 35.4 cents per square foot of ground coverage, ie., the area roofed over. "However, aesthetically we feel we achieved more than we could have with standard joist construction."

Bryant explains that this system was not used to its fullest extent in the store building where the longest span was 26 ft. He believes that spans of 40 ft. and more could be covered with increased economies.



INFLATED AIRHOUSE looks like giant elongated dome, has strength enough to support weight of several workmen on roof. Radiating from top center are stitch lines where tapered pieces of white vinyl impregnated fabric have been sewn together to round end. Material is waterproof and translucent to extent that no interior lighting is needed. This photo was taken with available light during heavy rain.

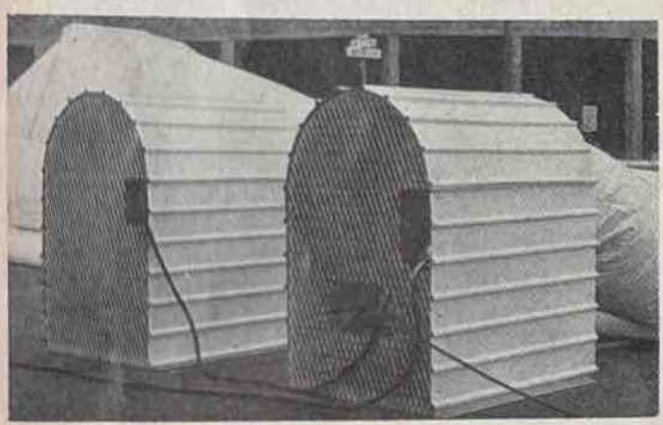
How to erect a 40x80-ft. 'house' in 12 minutes



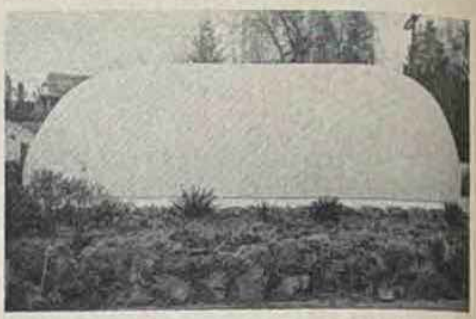
IN FEW MINUTES vinyl fabric will rise to dome about 25 ft. high, covering 40x80-ft. area. This model has small conventional doorways (airlock construction) at both ends so station wagon to be shown inside when house is erected has to be "inside" before structure is blown up, accounting for bump in material.

JOINING the parade of shelters being produced in this scientific age is the airhouse, which is finding its way across country to the West Coast. A 40x80-ft. model erected last month by Seattle Tent and Awning Co. in Seattle's Civic Center area demonstrated its potentialities to architects, builders, industrialists and homeowners.

As the photos on this page indicate, an airhouse starts with a limp, specially treated fabric (DuPont and United States Rubber are the chief suppliers) spread out on the ground and grows to a full-sized house when inflated with air. The pumping-up operation of this particular structure took less than 12 minutes.



TWO ILG FANS, each powered by 1/3-hp. electric motors, start air rushing into house, are capable of raising it completely in less than 12 minutes. They are controlled automatically by pressure-sensitive gauges and operate only when interior pressure drops sufficiently to start motors. Actually only one fan, operating at 38% capacity, is required to keep house at full pressure. Except for faster inflation time, there is no advantage in having two fans.



Air-supported structures may be built large enough to cover half a city block. For example, they may cover an entire building site during construction of a home, allowing workmen to go about their business regardless of the weather. Western swimming pool owners are covering their pools (see photo above) to enable them to swim all-year round. The houses may be taken down and stored for long periods.

Airhouses are not affected by severe cold. The vinyl impregnated nylon will withstand temperatures down to 60 deg. below zero. It was for this reason that type of structure was selected for radomes used in our Arctic early warning system (DEW Line).

PARTIALLY INFLATED HOUSE begins to look like big balloon. It is stabilized by water-filled ballast tube, noticeable around perimeter, but it may be ballasted by sand or earth or staked down for semi-permanent use. Airhouses do not have floors.

Reduction of building costs is research aid (Cont'd from p. 7)

a) Reduce on site labor.
b) Reduce total construction time.
c) Reduce total weight.
d) Reduce the number of layers of materials in the building shell.
e) Provide more comfort.
f) Combine functions of materials and equipment.
g) Integrate labor functions.
h) Increase the use of modular dimensioning and construction.
i) Increase the use of component construction.
j) Develop interdependent structural systems.
k) Improve methods of materials handling.
l) Improve methods of gluing or adhesion of parts to give continuous joints.
m) Continue to develop new materials and the use of more materials in combination.

6. To achieve these objectives, research must provide more scientific facts, more technical facts, more economic facts, more human and sociological facts, and more facts about the entire building process and its characteristics.
7. An effective aid to progress in housing research would be closer communication between the designer, manufacturer, researcher and builder.

Problems in building economics

The building economist must advise the prospective owner or builder when and where it is worthwhile to build. In order to do this, economists need:

1. National data on social and economic trends affecting demands for building, such as household formation by age and type.
2. Local data on factors influencing the demand for building.
3. Greater accuracy in the data supplied, whether it be presented by the federal government, by local governments or by industry.
4. More data on additions and alterations to existing structures, both residential and commercial.
5. Better data on financing which will include financing of apartments, trailers, etc.
6. Improvement in the data supplied on expenditures on existing non-residential structures.
7. Coordination of commercial research data on materials for non-residential construction.
8. Data on construction costs to the buyer.
9. Policies to help decide the areas of governmental and private responsibility for providing these data.

Problems in urban planning

1. The major problem in urban planning is the failure of planners to identify their decisions with the economic and financial, as well as the social, aspects of land use and development.
2. Most pressing problems in urban planning are:

a) Limitations on the supply of land available for our expanding urban areas, which surveys indicate is being used up at a rate of over one million acres per year of land suitable for urban development.
b) Recognition by government at all levels of the necessity for efficient renewal and redevelopment of existing urban areas, from the standpoint of industrial and commercial uses as well as housing, to raise every piece of land to its optimum use value.
c) Closer coordination between planners of highways and planners of urban land areas to prevent the forcing of highways into locations which would have serious impact on existing urban areas and on future development potentials.
d) Need to reduce the variations in codes, specifications, standards and requirements presented by various small, local jurisdictions within a metropolitan area.
e) Provision for an integrated city with all the requirements for living: homes, industry, education, recreation, etc.
f) Study of land use and land scarcity in terms of building life and a technique developed for disposing of obsolete buildings.
g) Flexible and progressive principles to guide urban planners both in new development and in rebuilding existing urban areas.
h) Information on the effect of neighborhood development on the economy, and the effect of the economy on neighborhood development.

FOR **SWIVEL LIGHTS**

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EXCLUSIVE "DieLux" DIECAST CONSTRUCTION

Heavy duty swivels hold tension indefinitely

A-14

9 beautiful finishes to choose from

Choice of metal cones; or Fabriglas cones, with embedded maple leaves, ferns, or rattan. (Also available in white.)

These are just a few of the features that make Prescolite Swivel Lights the finest available.

A-1393 WITH NATURAL MAPLE LEAVES

B-1394-2 WITH NATURAL FERN LEAVES

B-1396-3 WITH EMBEDDED RATTAN

AX-14 WITH PERFORATIONS

Swivel lights are available in single, double or triple mountings.

WRITE FOR YOUR COPY OF OUR CATALOG ON THE COMPLETE LINE OF PRESCOLITE LIGHTING FIXTURES.

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2229 4th St., Berkeley 10, Calif.
Easton Road, Neshaminy, Penna.

PRODUCTS

improved wrought iron

Production of 4-D wrought iron with 25% increased corrosion resistance has been heralded as a significant advancement in that product's metallurgical history, particularly on the Pacific Coast where salt water corrosion losses are severe. Results have been achieved by increasing the purity of the iron and its phosphorous content and in using a more siliceous iron silicate. Physical and mechanical properties of 4-D wrought iron also have been improved. It is widely used in the West for water supply and steam condensate lines, radiant heating systems, waste and drainage piping in buildings, as well as in underground water, air and gas lines. — A. M. Byers Co. **(Item No. 1)**

surfacing technique

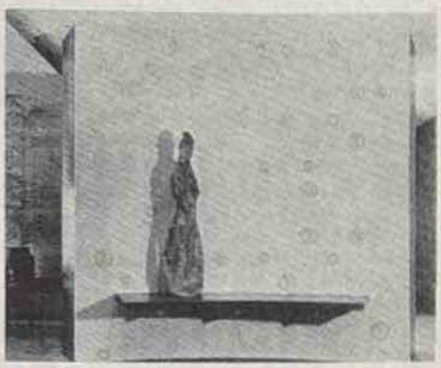
A surfacing technique called the Zolmat process permits complete renovation and modernization of wall areas, almost regardless of their condition. It allows surfaces which have been previously decorated with various materials such as wallpaper, canvas, wood and fibreboard to be uniformly finished without showing evidence of prior treatment. Even walls damaged by fire, smoke or water reportedly can be made to look like new with no visible defects.—Zolatone Process, Inc. **(Item No. 2)**

AC-TV wall unit

A self-contained wall unit has the AC and TV antenna outlet mounted on the same box assembly and on the same mounting plate. It is available in ivory or brown for single, duplex and triple receptacles as well as the Sierraplex models. (The manufacturer does not furnish the receptacle because of building code variations.) Electric box has been modified by deleting the knockouts from the side opposite the bracket to eliminate the possibility of bringing the AC into the unit too close to the TV line, which might be both a hazard and source of picture interference. — The Tele-Jac Co. **(Item No. 3)**

tile-wallpaper combo

Hermosa's latest series of decorative tile with correlating wallpaper includes seven oriental designs on three



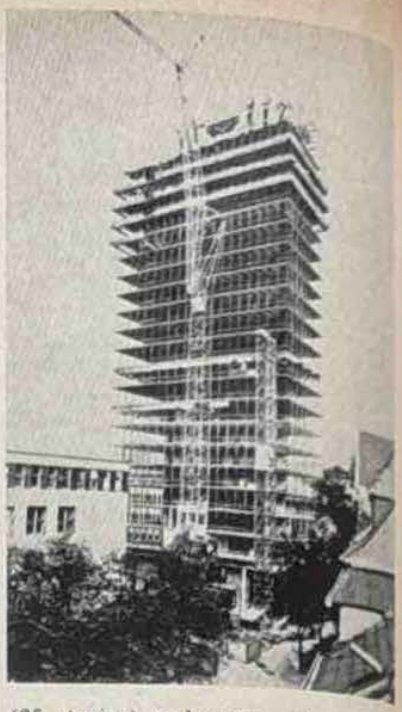
distinctive backgrounds. Orange or burnished gold may be combined with either a white or oatmeal background; gray can be used on graphite. Each is also available on hand screened wallpaper by Albert Van Luit & Co., designer of the new patterns.—Gladding, McBean & Co. **(Item No. 4)**

water heater

Described as the "first completely new water heater in a generation," the 5-Star General has a streamlined cabinet with all controls enclosed, can be built in with other cabinets or installed anywhere in the house. A temperature selector is located at eye level. Recovery rates are 77 gph. for the 40-gal. size, 63 gph. for the 30-gal. size.—The Holly-General Co. **(Item No. 5)**

giant crane

Expressing the distributor's "conviction that we are witnessing only the beginning of a colossal era of construction in the West," a slewing tower crane with a jib length of 100 ft. that can lift a 1½-ton load 332 ft.



(25 stories) and move under load is being introduced in this area. Developed by Peine in West Germany where it has been used for eight years, the crane is available in seven sizes, each allowing all motions—lifting, lowering, slewing, luffing and traveling—to be carried out simultaneously or independently, and all but the smallest type have three driving positions. One of the largest and the first to be used in this country is now at work on the Binghamton-Sheraton Hotel, New York (see photo), with a pully height of 161 ft., a jib length of 82 ft. and a lifting capacity of 7,200 lb.—Beatty Scaffolds, Inc. **(Item No. 6)**

versatile nailer

The Fox Nailer has been introduced as a pneumatic hammer attachment that greatly reduces fatigue and expenses in many nailing operations. Operator just places the nail in the nozzle; the nailer starts and finishes the job. The nailer weighs less than 1 lb., is only 6 in. long. Of the four parts, only two move and no lubrication is required.—Fox Nailer Corp. **(Item No. 7)**

air filter

The Far-Air Microloc offers the benefits of two-stage filtration in one unit with the installation and maintenance economies of a single bank of filters. A dry type, renewable media model, it is recommended for application requiring efficiencies which equal or exceed those of electrostatic air cleaners. Panel filter holding frame and locking device are an integral part of the unit.—Farr Co. **(Item No. 8)**

READER SERVICE

Pacific Architect and Builder
2418 Third Ave., Seattle 1, Wash.

Please send without obligation the data about the products or the literature listed on these pages.

Circle item number you wish:

APRIL 1958

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19		

Name

Title

Firm

Address

City Zone State

sprayed concrete

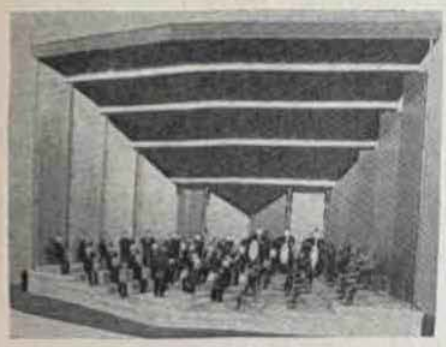
A concrete finish called Vitricon is sprayed on to produce a glazed surface with tilelike charecteristics. Recommended for hard wear areas, Vitricon is especially useful for remodeling projects since it fills and bridges hairline settlement cracks. The product can be sprayed on all types of masonry surfaces either inside or outside. Any color combination is possible by adding pigments to the mixture. The glazed surface sheds dirt and is cleaned with soap and water.—Vitricon, Inc. **(Item No. 9)**

sliding glass door

Tailored for large residential patios, hotels, motels and other commercial uses, panels of Trimview's multiple track aluminum sliding glass door can be stacked at either end, regardless of the number. They can be of standard or custom width. Multiple track can be installed with a raised or recessed sill by the use of adjustable rollers.—Trimview Metal Products. **(Item No. 10)**

aluminum band shell

What is described as the greatest advance in acoustical engineering ever devised for this type of structure, an all-aluminum band shell employs baffles in the sides and ceiling which diffuse rebounding echoes rather than concentrating them in any one spot in the audience. Design of the Overly hi-fi shell, which is suspended from the rear by three cantilevers, bans from the interior any structural supports which might tend to interfere with the acoustics. Made by sandwiching a 2-in. plastic core between sheets of aluminum, the side panels will be available in practically any finish or color. The shell, developed by the manufacturer in cooperation with the Aluminum Company of America and Pittsburgh architects Schell & Deeter, will accommodate from 40 to 120 musicians. A variety of lighting installations may be specified without necessitating changes in the basic design.—Overly Manufacturing Co. **(Item No. 11)**



When protection alone is not enough . . .

USS Cyclone Rustake Fence

This attractive swimming club needed protection. Good, strong fence was required to exclude trespassers and gate-crashers, to prevent unguarded after-hours swimming parties.

But this fence had another job to do, too—it had to preserve privacy. And that's why USS Cyclone Rustake Fence was selected. Sturdy Cyclone Fence, with its heavy steel framework and barbed wire, will discourage the most intrepid intruder. And those slender strips of glowing California Redwood, inserted in the special wide mesh of Cyclone Chain Link fabric, keep out prying eyes, let the bathers swim in privacy, add to the pool's good looks.

USS Cyclone Rustake Fence is ideal for use on every type of installation where protection, plus privacy, is essential. Cyclone Rustake Fence has all the strength of steel, and at the same time it gives the over-all appearance of redwood picket fence.

Send for free literature on "Cyclone Rustake Fencing."

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Cyclone Fence
Dept. AA-48, 954 60th Street
Oakland 8, Calif.

Please mail me, without charge or obligation, literature on "Cyclone Rustake Fencing."

Name .....

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City ..... Zone ... State .....

LITERATURE

electric heating systems

A faster, easier method of computing heat losses for rooms or complete homes and buildings is found in a "Manual for Planning Electric Heating Systems." Necessary time for calculating the heat loss for an entire house is reduced more than 50%. The newly developed method considers all the factors of other systems (multiplying heat loss coefficient by the square feet of area by the design temperature difference), but eliminates all arithmetic by transforming factors into one clear, easy-to-use graph. The manual also covers types of electric heating equipment available and their applications, insulation, selection and location and related topics.—Markel Electric Products, Inc. **(Item No. 12)**

home wiring calculator

A handy calculator to determine home electrical requirements consists of a check list by means of which the architect or builder can total room by room, the amount of wattage required. From this, comparisons can be made with national electric code recommendations to ascertain if service entrance equipment, number of branch circuits and size of wire used are adequate.—Federal Pacific Electric Co. **(Item No. 13)**

kitchen layouts

Although a brochure covering seven basic kitchen layouts is being offered to homemakers, architects and builders too may find some useful ideas in the 16 pages. Each of the layouts consists of a sketch, floor plan and brief description. The booklet features Ben-Hur built-in freezers and refrigerators but is not confined to the promotion of that company's products and has general data on lighting, ventilation, equipment and appliances and wiring. —Ben-Hur Mfg. Co. **(Item No. 14)**

walnut in architecture

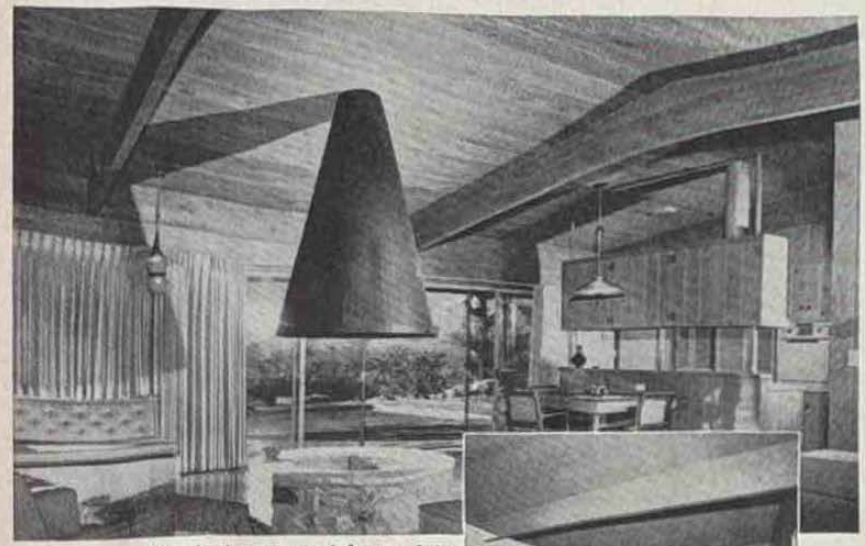
"An architectural Study of Walnut for Commercial, Institutional and Residential Interiors" presents 16 pages, some in color, of fresh treatments, ranging from traditional to contemporary decor. Companion piece is a walnut source list, intended as an aid in finding local supplies of walnut plywood paneling and solid walnut paneling and trim.—American Walnut Manufacturers Association. **(Item No. 15)**

pictorial design roundup

A 32-page brochure which illustrates construction and remodeling projects using Kohler installations completed since late 1954 actually is a fairly good cross section of architectural design from coast to coast and in the territories. Structures range from single-family residences to huge luxury apartments; and from a football stadium to an airport terminal building. In each case the architect, general contractor, plumbing contractor and distributor are credited.—Kohler Co. **(Item No. 16)**

industrial lighting specs

A reference guide for those concerned with the purchasing, specifying or selling of industrial lighting units, the 1958 "RLM Specifications Book" has new data covering 1) two- and three-lamp special service fluorescent units; 2) three types of units utilizing 800-ma. fluorescent lamps; 3) new incandescent reflector sizes; 4) new mounting specifications for fluorescent units. Specifications pertinent to all fixtures have been incorporated into a new, single standard; and as an added convenience feature, each individual specification is contained on the front



Rilco laminated wood beams from 30 ft. to 42 ft. long were used. "They all worked PERFECTLY" said the builder.

"I Can't Say Enough for the Rilco Beams!"

Writes Mr. J. F. Salyers. "They all fit perfectly with no twists or crowns. No sanding or filling was required. The Rilco beams have all the advantages, plus strength, of wood and none of the disadvantages. The finished appearance is so much better that there is just no comparison.

Residence, Tucson, Arizona
J. F. Salyers, designer
Casa Mesa Homes, builder

"We have had plenty of comments about these beams and they are mostly the same: 'They are beautiful.' 'Can you work them in our plan?' "

Striking Rilco laminated members blend well with any architectural style — allow wide latitude of expression with complete design freedom. And Rilco members retain their beauty, require little if any maintenance, increase their warmth with age — resist warping, splitting, cracking.

Laminated members are available in sizes difficult or impossible to obtain in solid construction. And now Rilco stocks standard-size flat beams, assuring prompt delivery with the low price of volume production.

RILCO
works wonders with wood

Rilco members and Rilco Deck may be able to help you solve a design problem. For complete information contact your nearest Rilco office.

RILCO LAMINATED PRODUCTS
236 Tacoma Building, Tacoma, Washington

and back side of a single page. Pages may be easily detached from the book and placed with a lighting quotation or specification.—RLM Standards Institute. **(Item No. 17)**

masonry in Northwest

"Reinforced Masonry as Developed in the Northwest" is a four-page brochure based on a paper presented at the American Concrete Institute regional meeting last fall by Verne Frese, president of Layrite Concrete Products of Seattle, Inc. One page is devoted to design details.—Concrete Products Association of Washington. **(Item No. 18)**

laminated timbers

The story of glued laminated timber construction is told in a 12-page booklet, made up of reprints of seven articles of interest to architects, builders and engineers. One piece gives a brief background of the history and development of laminated timbers; another is a picture article of how laminated beams are designed. Also included are the names and addresses of the members of the American Institute of Timber Construction.—Koppers Co., Inc., Chemical Division. **(Item No. 19)**

CATALOGS

Readers are requested to write directly to the manufacturers for copies of catalogs.

High Velocity Duct Design: contains 11 pp. of performance tables; explains step-by-step computations on two work sheets for 10-story office building; shows schematic layouts; 24 pp.—Anemostat Corporation of America, 10 E. 39th St., New York 16, N. Y.

Press Molded Building Panels, Flat Panes (AIA 26-A-9): details on mechanical and physical properties, chemical resistance, colors, finishes; gives installation instructions; has technical data table for thicknesses, standard lengths, finishes, coverage, lappage, spans; 8 pp.—Structoglas Division, International Molded Plastics, Inc., 4387 W. 35th St., Cleveland 9, Ohio.

Prescon System (AIA 4-E-12): briefly covers history and development of prestressed concrete; explains post-tensioning system; includes application examples, technical data, guide specifications, detail drawings; 14 pp.—The Prescon Corp., P. O. Box 4186, Corpus Christi, Texas.

New Distribution Switchboard: lists features, application data, protective device information, system applications and selection, dimensions, guide-form specifications; 32 pp.—General Electric Co., Plainville, Conn.

Pittsburgh Glass-Clad Buildings (AIA 17-A): handsome folder showing colors, sketches and actual installations of 82-X curtain wall system; plus pocket with specifications and details; 14 pp.—Pittsburgh Plate Glass Co., 1 Gateway Center, Pittsburgh 22, Pa.

Angle-Rite, the Means to Plastering with Crack-Free Corners: describes improved and faster method of locking gypsum lath in corners and ceiling angles; contains installation data; 4 pp.—Butcher & Hart Mfg. Co., 4601 Cortland Ave., Altoona, Pa.

Nevamar Carefree Kitchens Specifications File (AIA 35-C-12): data on wall and base cabinets, hardware, accessories; 4 pp.—Nevamar Carefree Kitchens, Odenton, Md.

Cafco for Fireproofing: contains description of product, fire-retardant rating tables, specification guide: 4 pp. Columbia Acoustics and Fireproofing Co., Stanhope, N. J.

SUPPLIERS

• **Fabricon Products** has named Western Plywood Co. of Seattle as distributor in the state of Washington for its Lamin-Art plastics.

• **Utility Appliance Corp.** and its subsidiary, Mission Appliance Corp., of Los Angeles have promoted John K. Elfstrom to advertising manager of both firms. He formerly directed this operation for Utility only.

• **Products Research Co.** has completed an addition to its West Coast manufacturing facility at Glendale, Calif., to provide storage and handling room for its synthetic rubber caulking and sealing compounds.

• **Consoweld Corp.** has appointed Ed Smedberg to cover several Northwest states out of Portland.

• **Kaiser Manufacturing, Inc.,** has opened a warehouse and factory at 683 S. Clarence St., Los Angeles, and appointed Ben F. Dingman as West Coast division manager. The firm's principal product is Crest Tile-Set, a portland cement material with chemical additives.

• **Unit Masonry Association** of Portland has elected these officers: L. C. Pardue, mason contractor, president; Howard Jacobs, mason contractor, vice president; Ralph Holm, Bricklayers Local 1, secretary; Alan Green, Pacific Building Materials, treasurer.

• **Pacific Lumber Co.** of San Francisco has elected Carl W. Bahr as vice president in charge of lumber sales; Norman B. Livermore Jr. treasurer; Merle L. Walker, assistant secretary (reelected) and controller; Harold Bendorf, assistant sales manager and sales production coordinator.

• **Reynolds Metals Co.** has named Donald W. Johnson as plant manager at Longview, Wash.

• **Goodyear Tire and Rubber Co.** has appointed Murray B. Marsh Co. of Los Angeles as distributor of its vinyl and rubber flooring products in eight western states.

• **Redondo Tile Co.** has opened a warehouse at 13904 Saticoy St., Van Nuys, Calif.

• **California Metal Enameling Co.** of Los Angeles has erected a new building to accommodate an especially engineered system for laminating architectural panels.

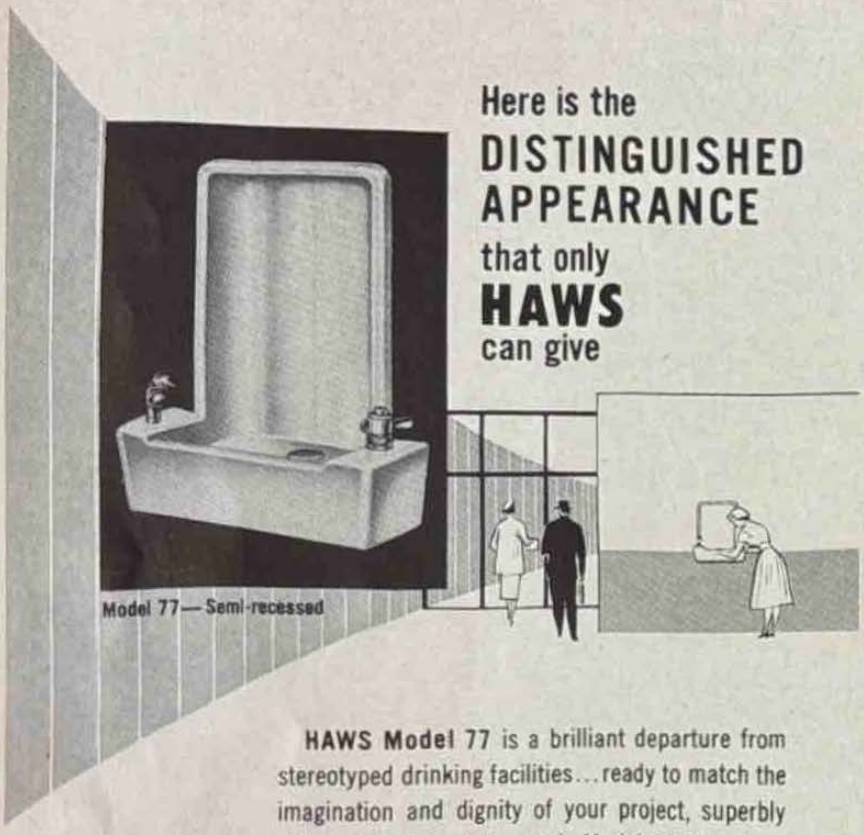
• **Eagle Metals Co.** of Seattle has elected C. B. Holder, who has been with the firm since 1937, to the office of vice president and sales manager.

• **The Payne Co.** of La Puente, Calif., has appointed William F. Steiner as assistant national sales manager, supervising the field sales force except southern California; and Kenneth E. Hill as factory sales engineer for southern California, serving the San Fernando Valley and West Los Angeles.

• **Gladding, McBean & Co.** has begun operations at its new $5 million pipe plant at Corona, Calif., regarded as the world's most modern and highly automatic.

• **Chase Brass and Copper Co., Inc.,** has opened a new warehouse and sales office at 230 Shaw Road, South San Francisco.

• **Trueforms, Inc.,** of Seattle, which is introducing a new fastening device



HAWS Model 77 is a brilliant departure from stereotyped drinking facilities...ready to match the imagination and dignity of your project, superbly styled, precision-engineered. Model 77 is a semi-recessed wall fountain—in durable vitreous china, available in striking colors, with automatic volume and pressure controls. And the same design is available in stainless steel (Model 73); or in remarkably tough, lightweight fiberglass (Model 69, in choice of colors at no extra cost).

WRITE FOR DETAILS
Ask for HAWS complete new catalog, too!

For nearly 50 years, HAWS has provided finer drinking facilities to match forward-looking architectural design. Here's a design in vitreous china, stainless steel and fiberglass worthy of your attention.

HAWS DRINKING FAUCET COMPANY
1441 FOURTH STREET (Since 1909) BERKELEY 10, CALIFORNIA

for concrete forming on the West Coast, has opened a warehouse at 1550 Doolittle Drive, San Leandro, Calif.

• **A. C. Horn Co., Inc.,** has moved its western division to larger quarters at 550 Third St., San Francisco, where an all-concrete structure houses three times the former space to serve the 11 western states.

• **Sliding Glass Door and Window Institute** at its annual meeting in Los Angeles recently elected Donald Foss of Van Nuys, Calif., as president. He heads Slide View Door and Window Co. and Malibu Manufacturing Corp. Other officers, all Californians, are: Murrell Spence, North Hollywood; first vice president; George Radford, Santa Maria, second vice president; William Watkins, Gardena, honorary vice president; and Charles Walker, Burbank, treasurer.

NATIONAL ASSOCIATIONS

• **American Concrete Institute** at its 54th annual convention in Chicago named as president, Douglas McHenry of Chicago, director of development, research and development division, Portland Cement Association.

• **Perlite Institute** elected D. Loring Marlett of Los Angeles, vice president of the mining and mineral products division, Great Lakes Carbon Corp., as president during its ninth annual meeting in Fort Lauderdale, Fla.

• **International Drywall Contractors Association,** which headquarters at 608 S. Hill St., Los Angeles, has begun publication of a monthly newsletter.

• **Metal Lath Manufacturers Association** reelected its president, L. C. Hollerbach of Wheeling, W. Va., manager of building material sales, Wheeling Corrugating Co., at the group's annual meeting in Cleveland.

• **Building Stone Institute** at its 39th annual convention in San Francisco elected August P. Petrillo of Mount Vernon, N.Y., as president.

• **Expansion Joint Institute** has elected Wallace C. Fischer of Chicago, head of Servicised Products Corp., as president.

• **Lumber Dealers Research Council,** sponsor of the Lu-Re-Co system, has opened its membership to manufacturers whose products are distributed through retail lumber and building supply dealers.

CONTRACTORS

• **Seattle Chapter, AGC,** has named John F. Boespflug of J. C. Boespflug Construction Co. as president for 1958. Other officers: Andrew P. Wick, Wick Construction Co., and Fred C. Ness, Ness Construction Co., vice presidents; Larry Baugh, Baugh Construction Co., secretary; John Frodesen, Farwest Construction Co., treasurer.

• **Twaits-Wittenberg Co.** partner and general manager, Carl H. Wittenberg of Los Angeles, cited the importance of the carpenter to the construction industry when he spoke at the Apprentice Completion Ceremonies at the Biltmore Hotel last month.

• **Fruin-Colnon Contracting Co.,** engineers and constructors, have expanded their personnel and facilities by moving from 260 Kearny St., San Francisco, to 48 Park Road, Burlingame, Calif.

• **John Cisero,** 66, building contractor at Los Gatos, Calif., for the past 10 years, died last month.

• McDonald, Young & Nelson, Inc., have moved to a new office building at 8907 Railroad Ave., Oakland.

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FOAM FAST provides a superior bond between plastic foam insulation and smooth surfaces of concrete, masonry, metal or wood. Just follow simple mixing instructions combining FOAM FAST Latex and FOAM FAST Powder. There's nothing else to add. FOAM FAST is easily applied with push box or trowel. Write or call for specifications and prices.

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T-SQUARE TALK

new offices, changes

Warren B. Heid, AIA, who has been associated with the architectural firm of Binder & Curtis in San Jose since 1947, has established his own office in the Professional Building, 14400 Park Plaza, Saratoga, Calif. The office will also serve as a branch office for Norton S. Curtis, AIA, of the firm with whom Heid will continue to be affiliated.

Frederick L. Rudat, architect, has opened his office in the Terminal Sales Building, 1220 S.W. Morrison St., Portland. Rudat had been in the Portland office of Skidmore, Owings & Merrill and previously with Stanton, Boles, Maguire & Church.

Albert A. Erkel & Associates, consulting structural engineers, have opened new offices at 3515 Cahuenga Blvd., Los Angeles. Prior to starting his own practice early last year, Erkel was in charge of structural engineering for Pereira & Luckman. He has degrees from Caltech and University of Southern California.

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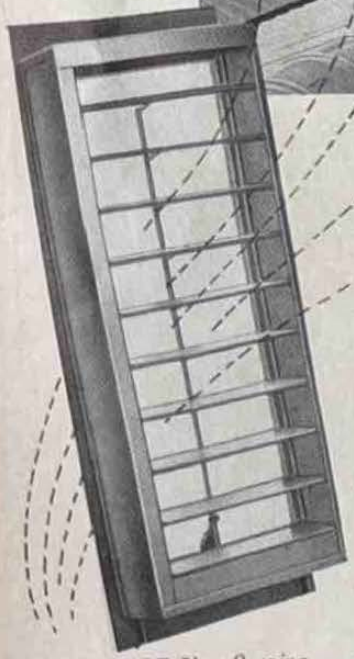

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Howard R. Lane has reorganized his architectural practice to include AIA members Samuel E. Hart and E. Ray Schlick as partners and has moved to new offices which the firm (now known as Lane, Hart & Schlick) designed at 16042 Ventura Blvd., Encino, Calif. Hart joins the partnership after six years with Welton Becket & Associates; Schlick, an associate in the firm for four years, is now in charge of production and field supervision.

Donald H. Lutes, AIA, and John M. Amundson have formed a partnership for the practice of architecture and community planning in the United States National Bank Building, Springfield, Ore.

Philip H. Hauck, AIA, has replaced James B. Pannell in the architectural firm of Bordeleau-Pannell & Amundson, now known as Bordeleau-Amundson & Hauck and occupying its present offices at 309 First Ave. N., Great Falls, Mont. A graduate of Montana State College, Hauck comes from Butte where he has been associated with Norman J. Hammill & Associates. Pannell is temporarily withdrawing from the practice of architecture because of business interests, but he will be retained by the new firm on a part-time consulting basis.

Charles E. Morgan, formerly associate architect with Blaine McCool & Associates, now is a partner in the firm, known as McCool, Morgan & Associates, which has moved to 11 Eastlake Ave., Seattle.

James S. Moore, AIA, and Donald E. Wilcox have been named vice presidents of Pereira & Luckman, Los Angeles architectural-engineering firm. A graduate of the University of Southern California, Moore has been with the firm for six years; Wilcox, with degrees from Washington State College and Yale University, has been with P&L since 1947.

new addresses

Philip S. Buckingham, AIA, to 5 Security Bank Building, Fresno.

Eckbo, Royston & Williams, landscape architects and planning consultants, to 1136 Clement St., San Francisco.

elections

Architects and Engineers Conference Committee of California has elected architect Henry L. Wright of Los Angeles as chairman and engine

Wesley T. Hayes of San Francisco as vice chairman. Melton Ferris, executive director of the California Council, AIA, was appointed to a second term as executive secretary of the committee, which is made up of four statewide organizations: the AIA, Structural Engineers Association, Consulting Engineers Association and Civil Engineers and Land Surveyors.

appointments

Malcolm Reynolds of Oakland has been named president of the California State Board of Architectural Examiners, succeeded by Kenneth S. Wing of Long Beach as secretary. Frank B. Cronin, the board's investigator in the San Francisco area for the past five years, has been appointed executive secretary to replace Richard A. Patrick, who recently resigned to enter a Los Angeles architectural firm.

Albert Harvey Funk of Spokane has been appointed to the Washington State Architectural Examining Board.

John Aguirre, formerly senior architect at North American Aviation, has been appointed architect in the Los Angeles office of the Portland Cement Association.

Richard Neutra, Los Angeles architect, has been named to the five-man R. S. Reynolds Memorial Award jury.

awards

Victor Gruen Associates, nationwide architectural firm with headquarters in Beverly Hills, Calif., has become the second recipient of a gold medal awarded by the Memphis Chapter, AIA, for "outstanding achievement in architecture and city planning."

exhibitions

An exhibit of hospitals designed by West Coast architects is being shown at the convention of the Association of Western Hospitals April 21-24 at the Civic Auditorium, San Francisco.

Special exhibition now hanging in the Architectural Gallery of the Building Center, Los Angeles, and continuing through April 30 features the work of Thornton Ladd & Associates, Pasadena architects. The show was preceded earlier this month by an exhibition of the work of Austin, Field & Fry, Los Angeles architectural-engineering firm.

CALIFORNIA COUNCIL, AIA, OFFICERS for 1958 are Corwin Booth, San Francisco, member-at-large; Allen Y. Lew, Fresno, treasurer; Lee B. Kline, Pasadena, vice president; L. F. Richards, Santa Clara, president. Secretary Edward H. Fickett of Los Angeles is not shown.

AIA activities

California Council, AIA, again has proposed that the national institute make the state a region in itself. The council, which first took this stand at its 1953 convention, declares that Nevada and Hawaii, now linked with California in the regional organization, could be better served by affiliation with the Western Mountain and Northwest regions respectively. It points out that California accounts for more than 93% of the AIA members in the region and that architects in the state operate under "code, conditions and practices" greatly different from those in the other two areas.

Idaho Chapter at an all-day meeting in Boise March 15 discussed "Arts and Crafts and Their Relationship with Architecture." Principal speaker was Elisabeth Kendall Thompson, western editor of Architectural Record, who said: "The glass wall, the pierced concrete grille, the plane surface have an apparent self-sufficiency which poses a problem for the arts in architecture that is perhaps more acute today than at any other time." Other speakers: Paul Roseland, Palo Alto, Calif., furniture design consultant; Lloyd M. Bond, landscape architect, and James Bartell, plastics and glass designer, both of Eugene, Ore.; Mrs.

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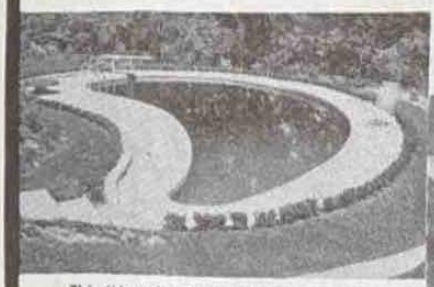

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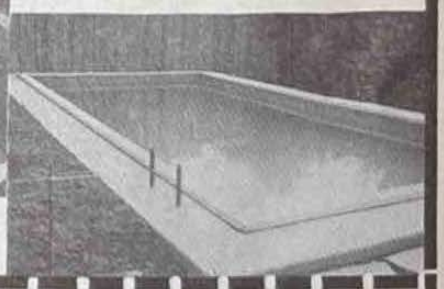

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Aldrich Bowler, Hagerman, Idaho, potter; and L. A. Douglas, Boise, muralist.

Washington State Chapter, joined by members of the Artists Equity Association at a dinner meeting in Seattle April 3, presented seven certificates for superior design, execution and craftsmanship. Awards went to Erik H. Erikson, Mercer Island, for general contracting and carpentry; Mignonne Keller, Seattle, sculpture and painting; Frank Melang, Marysville, masonry; Andrew V. Wetterauer and Carl N. Nelson, both of Seattle, and George Whelan, Bothell, execution of construction; and Bert Willemese, Portland, design and execution of stained glass.

Northern California Chapter, as part of its public relations program, is co-sponsoring a weekly column devoted to answering questions from the general public about architects and home construction problems in the San Francisco Examiner's "Modern Living" section.

Fifth annual Tour of Homes of the Women's Architectural League of Oregon will be held in Portland on Saturday, May 3, according to Mrs. Clark Austen, chairman.

BOOKS

Problems of Design. By George Nelson. Whitney Publications, Inc., 18 E. 50th St., New York 22, N.Y. 1957. 295 pp. $10.

A collection of 26 of the best and most interesting articles written by George Nelson ("an industrial designer with a sense of humor") during the past 10 years. Topics covered range from art to architecture, housing to town planning, modern decoration to the new subscape.

Shops and Stores. By Morris Ketchum Jr. Reinhold Publishing Corp., 430 Park Ave., New York 22, N.Y. 1957. 263 pp. $15.

A revised edition of a book which was published almost 10 years ago, developing the subject of store design in the same way—from the inside out. The chapter on "The Department Store" and those in the section entitled "Shopping Environment" have been completely rewritten. Brand new is the chapter on color.

Buildings for Industry. F. W. Dodge Corp., 119 W. 40th St., New York 18, N.Y. 1957. 309 pp. $9.75.

A selection of new industrial buildings, together with a series of studies on trends and factors in present-day industrial building design. Illustrated with more than 500 photographs and 200 line drawings are 74 projects from all over the U.S. and several other countries as well. There are six categories: warehouses, light industry, consumer goods, manufacturing laboratories, utilities and service industries and heavy industry.

High Schools: Today and Tomorrow. By Charles W. Bursch and John Lyon Reid. Reinhold Publishing Corp., 430 Park Ave., New York 22, N.Y. 1957. 127 pp. $7.95.

This volume which treats the development of a sound, workable high school program and the design of a building to house it should be of particular interest on the West Coast because of its authors. Charles W. Bursch headed the school plant service administration on the California State Department of Education for years and San Francisco architect John Lyon Reid is well known for his design of school buildings and also teaches at the University of California. Illustrations consist of plans and drawings of the proposed school plant; there are no photographs because there are no schools now in existence that incorporate these new ideas. Both program and plant are flexible enough to be adapted to special conditions.

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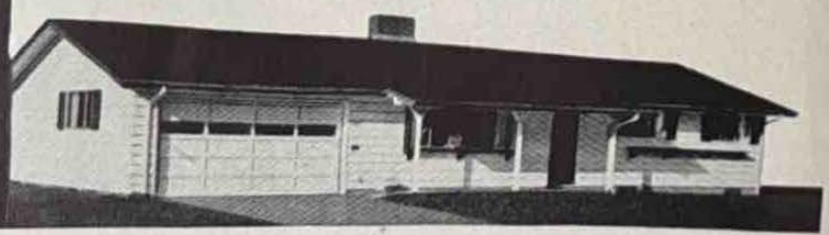

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Construction News Bulletin

Vol. 64—No. 8 (PA&B) News Section of Pacific Architect and Builder April 19, 1958

Dorothy McCormick ..... News Editor
Sandra Phillips ..... News Staff
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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

CIVIC BUILDING— Amity, Ore.
(Estimated cost $33,000)

Bond election will be held May 16 by City Council, City Hall, Amity, on bond issue to finance construction of a one-story 74'x90' cement block multipurpose structure on 4th St. in Amity to house city offices, library facilities and fire equipment.
SC 4-15. Previous report 1-29

▲QUARTERS ADDITION— Astoria, Ore.

Four bids received by 13th Naval District, Bldg. 250, U.S. Naval Station, Seattle, for construction of a two-story, 16'x14', wood frame addition to the "H" type married enlisted men's quarters at the U.S. Naval Station, Tongue Point, Astoria; Spec. No. 12341/58. Bids opened April 10. LOW BID: Walter C. Mathre, 374 Klaskanine Ave., Astoria, $19,956. HI BID: H. W. Ostrom, 2463 Marine Drive, Astoria, $24,170.
SP 4-11. Previous report 3-15

▲STAFF HOUSE— Beaverton, Ore.

Three bids received by George Guins, structural engineer, 1836 N.W. Overton St., Portland, for construction of two-story, 40'x100' concrete and frame staff house at Northwestern Christian Home, 3400 S.W. 183rd Ave., Beaverton. BIDS: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $67,-890; Howard Brewton, 1240 S.E. Gideon St., $69,300. Reimers & Jolivette, Builders Exchange Bldg., $69,620. All of Portland. Bids opened April 9. WB 4-12. Previous report 4-2

●OIL BURNER, CONTROLS— Bend, Ore.

Bids will be opened 3 p.m., April 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for new oil burner and temperature controls at the U.S. Post Office, Wall St. at Franklin Ave., Bend; Proj. No. SEA-1087. Plans with above office.
SP 4-16

●CHURCH— Coos Bay, Ore.

Bids to be opened 8 p.m., May 5, by Presbyterian Church, Union and Washington, Coos Bay, for construction of 4,500 sq. ft., one-story, frame six-room school building. Plans with Robert F. Fisher, architect, 422 Hall Bldg., Coos Bay. $25 deposit. Description: wood siding over gypsum sheathing; wood sash and doors; foil faced mineral wool blanket insulation; glued laminated beams; roof frame sheathed with plywood, gravel roofing; wood joist-supported plywood floors; asphalt tiling; gypsum lath and plaster interior walls, ceilings; fir plywood cabinets; fluorescent, recessed incandescent lighting; electric baseboard heaters.
DC 4-16

●PREFABRICATED STEEL BUILDING— Eugene, Ore.

Bids will be opened 3 p.m., April 22, by Civil Aeronautics Administration, Procurement Branch, Box 45007, Airport Station, Los Angeles, Calif., for construction of a complete VORTAC facility including fencing, road construction, erection of a prefabricated steel building, miscellaneous electrical work and associated work at Eugene; Proposal No. 4-58-974. Bid opening was previously scheduled for March 15 (estimated date). Plans with above office.
SP 4-11. Previous report 2-7

★CHURCH MISSION— Eugene, Ore.

Award to Vik Construction Co., 160 Madison, Eugene, $57,000, for construction of the new 5,700 sq. ft. concrete block St. Thomas Episcopal Mission, including landscaped cloister, at Cal Young and Coburn roads in Eugene. Plans by Stafford & Morin, architects, 2505 Capital Drive, Eugene.
DB 4-15. Previous report 3-29

▲LIBRARY— Eugene, Ore.

Award is still pending on construction of two-story, reinforced concrete library at southwest corner of W. 13th and Olive, Eugene. Nine firms submitted bids to City Council at April 10 bid opening, ranging from a low of $360,750 to a high of $404,274. LOW BIDS: Gale M. Roberts, 338 W. 11th, $360,750; Vik Construction Co., Box 3056, $362,912; W. H. Shields, Box 3037, $368,148. All Eugene. Architect: Hamlin & Martin, 159 W. 12th, Eugene.
DC 4-16. Previous report 3-25

▲METHODIST CHURCH— Gresham, Ore.

Five bids received by Gresham Methodist Church, 200 E. Powell Blvd., Gresham, in the City Hall at Gresham for construction of the reinforced concrete and frame Gresham Methodist Church on a four-acre site at Norman Ave. and N.W. 8th St., near Multnomah County Fairgrounds, in Gresham. Plans by Stuart B. Mockford, architect, 723 Washington St., Oregon City. Bids opened April 11. TWO LOW BIDS: Mason & Robinson, 2004 N.E. 127th Ave., Portland, $208,500; Anfelt B. Hansen, 2115 S.E. Ogden St., Portland, $213,723. HI BID: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $228,500. WB 4-15. Previous report 4-1

GARAGE RELOCATION— Kingsley Field, Ore.

Bid opening cancelled by U.S. Air Force, Kingsley Field, Klamath Falls, for relocation of 18 garages at Kingsley Field; Inv. No. 58-15. Bids were to have been opened April 10.
ZZ 4-12. Previous report 3-25

●THEATER, PARACHUTE SHOP— Kingsley Field, Ore.

Bids will be opened 2 p.m., May 2, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for construction of a 43'x126'x22' high reinforced concrete and concrete block base theater building and a base parachute shop consisting of a 20'x26'x62' high reinforced concrete drying tower and an attached 62'x40'x11' high concrete block building, at Kingsley Field, Klamath Falls, Ore.; Spec. No. 12351/58. Plans with above office.

Following description applies to both buildings: structural steel joist; steel roof deck; extensions, alterations and connections to existing utility service; paving; sidewalks. Work involves earthwork, concrete, masonry, steel work, carpentry and joinery, roofing, metal windows and doors, asphaltic concrete, flooring, acoustical unit work, sprinkler system, electrical work, plumbing, heating and ventilating and field painting.
SP 4-11

★FIRE ESCAPE MODIFICATION— Kingsley Field, Ore.

Award to only bidder A. E. Fitzgerald, 329 Rogers St., Klamath Falls, $4,968, by U.S. Air Force, Kingsley Field, Klamath Falls, for modifying fire escapes serving four buildings at the base; Inv. No. 58-16. Bid opening April 9.
ZZ 4-15. Previous report 3-25

COLLEGE PLANT IMPROVEMENTS— Klamath Falls, Ore.

The Oregon State Board of Education, Capitol Bldg., Salem, has authorized W. D. Purvine, director, Oregon Technical Institute, Klamath Falls, to negotiate with Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, to prepare alternate drawings for improving the institute plant at its present location or for a new institute at another location. A preliminary estimate prepared by the consulting engineering firm

slated $6,000,000 for replacing the campus at its present location and more than $7,000,000 for moving the plant to a new site. Modernization plans for the present site are expected to include a central building to house administrative offices and classrooms, a building for allied arts courses, a science building and housing quarters for more than 700 married students.
ZZ 4-5

RESIDENCE— Klamath Falls, Ore.

Plans are nearing completion by Stan Miller, architect with Howard R. Perrin, 1121 Main St., Klamath Falls, for a one-story and no basement, 1,640 sq. ft. residence on Moyina Heights in Klamath Falls, for James E. Misfeldt, 2205 Eberlein Ave., Klamath Falls. Included will be 22'x26' attached connecting garage. Contract will probably be negotiated.
ZZ 4-12

FIELD HOUSE— Klamath Falls, Ore.
(Estimated cost $110,000)

Plans will be complete about July 1 by Morrison & Howard, architects, 203 Williams Bldg., Klamath Falls, on a one-story, 8,500 sq. ft., wood with pumice brick exterior field house to be constructed as an addition to the high school natatorium on Modoc Athletic Field in Klamath Falls. Bids will be invited soon after completion of plans by Klamath Union High School District No. 2, Klamath High School, Klamath Falls.

Reinforced concrete footings and foundation; concrete slab floors with ceramic tile in shower and toilet rooms; steel or aluminum sash; general wood construction with pumice brick exterior; built-up roofing. Plans include additional filter facilities to bring the natatorium pool up to class A standards and contract will include removing present frame field house.
ZZ 4-15. Previous report 3-25

●HIGH SCHOOL ADDITIONS— Milwaukie, Ore.

Bids will be opened 8 p.m., May 8, by Union High School District No. 5, Clackamas County, Ferd Paulson, clerk, Milwaukie, for (A) Clackamas High School addition; (B) Clackamas High grandstand, and (C) Milwaukie High remodeling and addition. Plans with Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

CLACKAMAS HIGH ADDITION — One wing to contain agriculture shop, classroom and vocal room; another wing will have arts and crafts space. Frame construction with brick veneer exterior; concrete slab floor with asphalt and rubber tile; aluminum sash; hollow metal exterior doors; glued laminated beams with solid decking and graveled built-up roof; hemlock wall paneling and plaster wall finishes; acoustical tile ceilings in classrooms; fir and birch cabinets; extension of existing heating with space heaters and ventilation units; fluorescent lighting. GRANDSTAND—Risers and treads will be concrete placed on an existing embankment; built-up steel brackets and wood seat boards (seating for 1,400); concrete block toilet and concession areas; roof (deductive alternate) will have glued laminated beams with wood purlins and plywood deck under built-up roofing. MILWAUKIE HIGH—Replacing of concrete slab on ground floor; remodeling rooms on first and second floors with vinyl tile and linoleum floor finishes; plaster on new wiring and some patchwork; asphalt tile on new floor slab. Alternates for additional work: (1) Remodel present shop building for arts and crafts, photography, general work area and ceramics area; considerable built-up cabinet work; (2) Remodel frame agricultural shop into bank building with frame interior partitions, floor covering and acoustical treatment; (3) Addition of reinforced concrete vocal wing to existing stage; wood floor with cork flooring; plastered walls; acoustical ceilings; plastic skylights; wood joist roof; built-up roofing.
WB 4-12

▲CHURCH COMPLETION—Milwaukie, Ore.

Three bids received by Oak Grove Methodist Church, O. L. Covault, pastor, 14700 S.E. Rupert Drive, Milwaukie, for completion of the 114'x44' church. Plans by Stuart B. Mockford, architect, 723 Washington St., Oregon City. Bids opened April 10. BIDS: Norman Builders, 2803 S.W. 3rd Ave., $53,982; St. Pierre & Vermilyea, 10505 N.E. Beech St., $55,630; Bickford Construction Co., 823 S.E. 28th Ave., $55,800. All of Portland.
WB 4-15. Previous report 4-2

RESORT EXPANSION— Oceanlake, Ore.
(Estimated cost $250,000)

Construction is expected to start this summer on expansion of the Dorchester House restaurant on 400'x420' site west of the existing structure at Oceanlake. Plans by Robert K. Grubb, designer, 2787 N.W. Raleigh St., Portland. Al Jaroff, Oceanlake, is owner of the resort.

The existing structure will be renovated; a new extension will be added the full length of the main building with new kitchen, dining, broiler and cocktail facilities; viewing deck. The garden area will feature reflecting pool, teenage coke bar (enclosed for winter use), pool building with faceted roof structure housing central heating plant. Living cabanas with individual interior designs and art forms will surround the gardens. Community activity building will provide indoors sports such as shuffleboard, squash, tennis, etc., and portable seating for banquets and meetings. Additional housing units will have sun decks. Sculptured tower of light and rich night lighting. Construction materials will include Oregon cedar, field stone, thermopane, copper and art glass; cinder, cement and pebble walks; terra cotta tile in landscape and garden areas.
WB 4-5

■GRADE SCHOOL— Pendleton, Ore.

Planholders announced for construction of a 18,360 sq. ft. seven-classroom starter grade school on the old golf course site just north of the high school now under construction in Pendleton. Bids will be opened 2 p.m., April 29, by Pendleton School District No. 16C, Wallace McCrae, superintendent, 229 S.W. 1st, Pendleton. Plans with Warren Weber, architect, 610 Fenton Bldg., Portland. $35 deposit.

Planholders: McCormack Construction Co., S.E. 3rd and Goodwin Sts., Pendleton; Bechtel Bros., Box 792, La Grande; Timber Co., 2150 N. 1st St., Hermiston; Paul B. Emerick Co., 4540 S.E. 174th Ave., Portland; Beebe Construction Co., 2134 N. Flint, Portland; Mason & Robinson, 2004 N.E. 137th Ave., Portland.
WB 4-16. Previous report 4-5

★COMMUNICATIONS BUILDING, TOWER, TANK— Placer AFS, Ore.

Award to Ausland Construction Co., Manchel Bldg., Grants Pass, $40,465, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for Gap Filler Facility, including a 1,282 sq. ft. concrete block communications building, tower erection, oil storage tank and grading and road surfacing, at Placer Air Force Station; ENG-45-108-58-79.
SP 4-11. Previous report 4-4

GRADE SCHOOL ADDITION— Portland, Ore.

Bond issue for $48,000 approved by Rockwood School District No. 27, Multnomah County, 740 S.E. 182nd Ave., Portland, for partial financing of an addition to the North Rockwood Elementary School at 330 N.E. 172nd Ave. It will include five classrooms, toilet facilities and an additional boiler. Bid call will be issued about May 1. Plans are by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland.
WB 4-12

REHABILITATE EXPOSITION— BUILDING— Portland, Ore.
(Estimated cost $484,380)

Stewart & Richardson, architects, 219 S.W. Stark St., Portland, retained by Oregon Centennial Commission, Anthony Brandenthaler, chairman, Jackson Tower, Portland, to prepare plans for renovation of the Pacific International Livestock Exposition building in north Portland for the Oregon Centennial Exposition and International Trade Fair in 1959. The architects will also do the architectural layout and design of the 65-acre site.

Preliminary estimates on the cost of the work have been made by Moffatt, Nichol & Taylor, structural engineers, 1845 N.E. Couch St. Work would include: (1) Structural repair, $31,840, including reposting columns and repair of balcony floor; (2) Fire protection, $72,210, including roof and window vents, repair of fire doors, placement of new hydrants, sprinkler system under stage seat decks and standby water system; (3) Sewage disposal, $39,950, including primary treatment plant and lavatory facilities; (4) Electrical additions, $132,150; (5) Building renovation, $101,800, including new asphalt siding on arena walls, remodeling of interior lavatory facilities, two new ramps, repair of damaged seating, refinishing all seats, replacement of sideboards with pipe railing and painting; (6) Site development, $196,630, including road at east end of building, new paving 12' strip at south side, new parking lot, bumper logs, filling and paving area for amusements, and walks.
WB 4-12. Previous report 11-9

▲SCHOOL ALTERATIONS—Portland, Ore.

Five bids received on each of three alteration projects by Portland School District No. 1, 620 N.E. Halsey St., Portland. Bids opened April 9. GREGORY HEIGHTS CAFETERIA—TWO LOW BIDS: Wilson & Dean, 1016 N.E. 61st Ave., $58,952; E. Carl Schleve, 1024 N.E. Davis St., $59,641. HI BID: James & Yost, Box 1025, $63,917. GRANT OFFICES— TWO LOW BIDS: Lorentz Bruun, 3636 S.E. 20th Ave., $28,964; Adolfo C. Ravel, 8105 S.E. Duke St., $29,333. HI BID: James & Yost, $35,975. GRANT PHYSICS ROOM— TWO LOW BIDS: Wilson & Dean, $12,200; Lorentz Bruun, $13,087. HI BID: James & Yost, $14,643. Of Portland.
WB 4-12. Previous report 1-27

HOTEL ADDITION— Portland, Ore.

Description follows for construction of the reinforced concrete, 102,000 sq. ft., 12-story, plus penthouse and basement, addition to Benson Hotel, Broadway between S.W. Oak and Stark street in Portland, for Western Hotels, Inc., Seattle. Bids will be opened 2 p.m., April 30, in Benson Hotel by Western Hotels, Inc. Plans with Jones, Lovegren, Helms & Jones, architects, Republic Bldg., Seattle, Wash.

Fireproof, structural steel beams; flat built-up roof, tar and gravel surface, 1" rigid insulation in roof; brick and ceramic veneer exterior finish; aluminum sash; plaster on metal lath and studs for partitions; concrete floors, parquet, quarry tile, marble, flooring; carpeting; some acoustical plaster; extensive mosaic ceramic tile in bathrooms and on exterior of building; fluorescent, incandescent lighting; air conditioning unit in each guest room; hot water steam heating system. Steel deck canopies and marquees are planned, and an aluminum penthouse railing may be included.
PD 4-11. Previous report 4-4

●PLUMBING WORK— Portland, Ore.

Bids will be opened 10 a.m., April 24, by 337th Fighter Group, Portland International Airport, Portland, for installation of boilers, addition of latrines and miscellaneous plumbing at several buildings at the airport; Inv. IFB-58-45.
WB 4-11

●LOOKOUT HOUSES— Portland, Ore.

Bids will be opened 11 a.m., P.S.T., April 27, by U.S. Forest Service, 729 N.E. Oregon St., room 207, Portland, for furnishing five ready-cut flat-top lookout houses, complete with catwalks, fob bidder's plant; Inv. No. 305. Specifications with above office. The houses will include 7'x7' tower type for truck haul, for Bly, Fremont National Forest; and the following 15'4"x15'4" houses: ground type for truck haul, Snow Camp, Siskiyou National Forest; ground type for horse packing, one each for Grasshopper, Umpqua National Forest, and Scar Mountain, Willamette National Forest; tower type for hose packing, Indian Ridge, Willamette National Forest. Transportation cost from bidder's plant to building site will be considered in determining award.
WB 4-11

CITY-COUNTY BUILDING— Portland, Ore.

Multnomah County and the City of Portland have jointly purchased the McElroy Bldg. at S.W. 4th Ave. and Main streets, as part of the site for a future city-county building. Negotiations are under way for purchase of the remainder of the block. A portion of the building wil be converted

for city offices, and an architect will be hired soon to prepare plans.
WB 4-9. Previous report 2-8

●GRAIN ELEVATOR EQUIPMENT— Portland, Ore.

Bids will be opened 10 a.m., April 25, by Commission of Public Docks, F. M. Fahrion, purchasing agent, 3070 N.W. Front Ave., Portland, for installation of screens on certain windows and doors, and belts at Terminal No. 4; Contract No. 315. WB 4-15

★LLOYD CENTER DEVELOPMENT— Portland, Ore.

Following are prime subcontracts and figures for contracts announced earlier by the Lloyd Corp., Richard Horn, project manager, 800 N.E. Wasco St., Portland, for construction of the Lloyd Center in the 40 square-block area between N.E. Broadway and Banfield Freeway, N.E. 9th and 16th avenues in Portland. Plans by John Graham, architect, 1426 Fifth Avenue Bldg., Seattle. Awards were made on four general contracts, each covering certain areas of the center. Prime sub-contractors have been assigned to each of the general contractors.

CONTRACT 1—GENERAL: Donald M. Drake Co., 1600 N.W. Savier St., $7,746,252. ELEVATOR: Otis Elevator Co., 2200 4th Ave., Seattle, $150,664. ESCALATOR: Otis Elevator Co., $341,438. PLUMBING: Natkin & Co., 6610 Supply Row, Houston, Tex., $139,372. HEATING, VENTILATING, AIR CONDITIONING: Natkin & Co., $630,364. RINK REFRIGERATION: Lewis Refrigeration Co., 80 S.E. Taylor St., $153,336. BOILER PLANT: Natkin & Co., $287,210. FIRE PROTECTION: Grinnell Co. of Oregon, 3240 N.W. 29th, $80,725. ELECTRICAL: W. R. Grasle, 437 N.W. 16th Ave., $691,000.

CONTRACT 2—GENERAL: Max J. Kuney Co., N. 120 Ralph St., Spokane, $5,357,180. ELEVATOR: Elevator Maintenance Co., 1316 Glendale Blvd., Los Angeles, $49,681. ESCALATOR: Otis Elevator Co., $197,064. PLUMBING: J. M. Harder Plumbing & Heating Co., 2148 N.E. Union Ave., $147,377. HEATING, VENTILATING, AIR CONDITIONING: Kendall Heating Co., 1636 N.W. Lovejoy St., $478,285. FIRE PROTECTION: The Bay Co., 1512 Center St., Tacoma, $32,249. ELECTRICAL: McCoy Electric Co., 2002 S.E. Clinton St., $297,500.

CONTRACT 3—GENERAL: Donald M. Drake Co., $7,643,311. ELEVATOR: Elevator Maintenance Co., $94,421. ESCALATOR: Otis Elevator Co., $259,105. PLUMBING: Natkin & Co., $115,990. HEATING, VENTILATING, AIR CONDITIONING: Temp-Control Corp., 2905 N. Mississippi Ave., $297,202. FIRE PROTECTION: Bay Co., $25,552. ELECTRICAL: Jaggar-Sroufe Co., 939 S.W. 10th Ave., $294,880. EXCAVATION: R. A. Heintz Co., 211 N.E. Columbia Blvd., $194,500. FIRE PROTECTION: Bay Co., $138,440. UNDERDECK PARKING AREA VENTILATION: Widmer's Plumbing & Heating Co., 900 S.E. Sandy Blvd., $10,698. PROJECT ELECTRICAL FACILITIES: Electrical Construction Co., 2121 N.W. Thurman Ave., $193,820. OUTDOOR PARKING, STREET LIGHTS: Tide Co., 829 N. Russell St., $125,215.

CONTRACT 4—GENERAL: Henry M. Mason Co., 2206 N.W. Thurman St., $682,652. ESCALATOR: Westinghouse Electric Corp., 5528 White-Henry-Stuart Bldg., Seattle, $55,086. PLUMBING: Widmer Plumbing & Heating Co., $20,187. HEATING, VENTILATING, AIR CONDITIONING: Temp-Control Corp., $51,587. FIRE PROTECTION: Viking Automatic Sprinkler Co., 3245 N.W. Front Ave., $14,666. ELECTRICAL: Christenson Electric Co., 5 N. Mason St., $46,830. Of Portland except as noted.
WB 4-15. Previous report 4-12

▲CONVALESCENT HOME— Portland, Ore.

Eight bids received by Woman's Convalescent Home, 631 S.E. 28th Ave., Portland, for construction of a one-story, 8,100 sq. ft. building to replace the existing structure. Plans by Jacobberger, Stanton, Franks & Norman, 512 McKay Bldg., Portland. Bids opened April 11. TWO LOW BIDS: Sterner Construction Co., 13845 S.E. Rhine St., $126,472; Norman Builders, 2805 S.W. 3rd Ave., $129,682. HI BID: Teller Construction Co., 845 N. Graham St., $142,052. All of Portland.
WB 4-15. Previous report 4-4

●AIRPORT FURNITURE— Portland, Ore.

Bids will be opened 2 p.m., April 30, by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland, for manufacturing, furnishing and installing certain furniture items for the terminal building, Portland International Airport. Plans with Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. $25 deposit. Bid bond or certified check 5%. Furniture will be mostly metal, both standard and custom designed. Standard items include metal chairs with foam rubber upholstery and plastic covers; vanities, chairs and stools for roomettes; stretchers, wheel chairs and baby cribs; lamps. Custom furniture includes indoor and outdoor benches, tables and writing desks. Office furniture and some other items will be purchased later. WB 4-15

●DORMITORY CABINET WORK— Portland, Ore.

Bids will be opened 4 p.m., April 25, in the offices of Farnham, Shell & Hoyt, architects, 4444 S.W. Corbett St., Portland, for custom-designed room and lounge furniture for the four men's dormitory units under construction at Reed College. Plans with architects. $15 deposit.

Room furnishings for 100 students will include wardrobes, slatted benches, desks and beds, all of prefinished ¾" hardboard with plastic edge trim; linoleum tops on desks; rubber base on wardrobes and desks. Each of four lounges will have six seating units with metal bases. WB 4-15

●FIRE STATION— Portland, Ore.

Bids will be opened 8 p.m., April 29, by Rural Fire District No. 10, Multnomah County, H. V. Beldin, secretary, at Main Fire Station, 1500 S.E. 122nd Ave., Portland, for construction of one-story frame and masonry Fire Station No. 3, N.E. 132nd Ave. and San Rafael St. Plans with Joseph H. Rudd, architect, 602 Hughes Bldg., Portland. $20 deposit. Certified check or bid bond 5%.

Partial basement; wood joist and concrete slab floors on grade; asphalt and vinyl tile flooring; walls part concrete block, exposed

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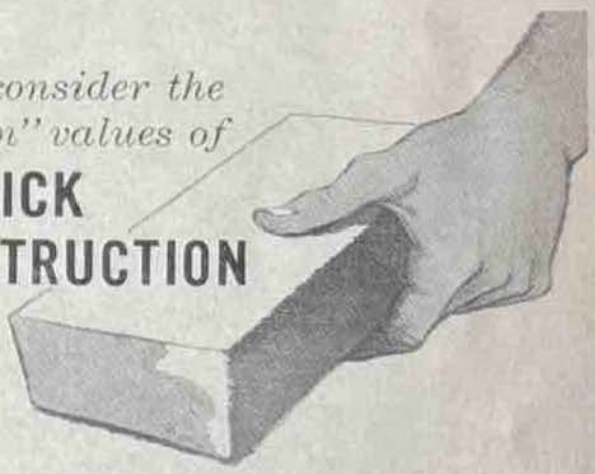

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on exterior, and wood frame with cedar siding; insulated ceilings; composition roofing with gravel surfacing; metal toilet partitions; kitchen equipment; aluminum flagpole; blacktopped parking area; wood fence; walks, curbs. WB 4-16

● ELECTRICAL WORK— Portland, Ore.

Bids will be opened 2 p.m., April 28, by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland, for electrical service and distribution system for 11-bay, 281,128 sq. ft. Building No. 4 on Swan Island. Certified check, cashier's check or bid bond 5%.

Work includes furnishing and installing two main service distribution centers, service feeders and the distribution system, together with 11 power distribution centers, lighting control panels and transformers. Feeder circuits to existing overhead crane trolleys and lighting systems are included. Removal and/or modification of the present electrical service is also included to provide each of the 11 bays with an independent, separate meter distribution system. WB 4-16

CONVALESCENT HOME— Prineville, Ore.

Bond election will be held in May by Crook County Commissioners, Courthouse, Prineville, on a bond issue for additional funds to finance construction of the 20-bed brick and glass Crook County convalescent home in Prineville. Plans have not been completed by J. E. Wicks, architect, 1129 Commercial, Astoria.

SP 4-5. Previous report 2-12

★ SUPERMARKET— Salem, Ore.

Award to C. W. & Willis A. Hill, Box 682, Salem, $95,984 basic plus $65 per c.y. for additional concrete and $1.40 per yd. for gravel fill, for construction of the McKay Bros. supermarket in the proposed Market Street Shopping Center east of the city at the Salem By-Pass. Seven bids were received April 4 in the office of Robert T. Piper, architect, 1784 Walnut, Eugene. 2ND LOW: E. E. Batterman, 147 N. Commercial, Salem, $97,800 (basic). HI BID: Smith & Nelson, 1198 S. 20th, Salem. $106,897.

SC 4-12. Previous report 3-26

● HOSPITAL— The Dalles, Ore.
(Estimated cost $1,200,000)

Bids will be opened 4 p.m., May 5, by The Dalles General Hospital, T. J. Carson, president of board of trustees, at Wasco County Courthouse, The Dalles, for 75-bed, four-story reinforced concrete hospital on 14½-acre site off Dry Hollow Road. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland. Select list of bidders.

Ground floor will contain kitchen, boiler room, laundry, utility services, etc.; 104' x 152' main floor wing includes administrative areas, emergency room, surgery, delivery room, out-patient facilities with X-ray and lab, obstetrical nursing, physio-therapy, etc.; two upper floors will be for medical and surgical nursing. Architectural concrete exterior finish; aluminum sash; linoleum or conductive tile flooring; acoustical ceilings; metal studs with gypsum lath and plaster; inside of exterior walls will be lined with styrofoam and plaster; two elevators; dumb waiter; hot water heating plant; air conditioning for operating areas; patient-to-nurse communications; blacktopped parking areas; landscaping; lawn sprinkler system. WB 4-16. Previous report 10-11

FOUNDRY— Tigard, Ore.

Plans are underway by Monson & Sivers, engineers and contractors, 5000 S.E. 25th Ave., Portland, for construction of a foundry, office and pattern shop for Western Foundry Co., Edward G. Huffschmidt, vice president, 2400 S.W. Water Ave., Portland, on a 16-acre site southeast of Tigard adjacent to Southern Pacific tracks and near the Baldock Freeway. Site grading is expected to start soon by Monson & Sivers. Completion of buildings is scheduled for August 1. WB 4-9

▲ HANGAR UNITS— Troutdale, Ore.
(Estimated cost $20,000)

R. A. Hunter, 7610 N.E. Sacramento St., Portland, submitted the only bid April 9 to the Port of Portland, John J. Winn, Jr., general manager, 5845 N. Lagoon Ave., Swan Island (Box 4099), Portland, for leasing of land at Troutdale Airport for construction of airplane storage hangars capable of handling a minimum of 30 planes. Hunter offered to pay $777 a year for the land, for a 20-year period. The hangars, either three 10-unit T-hangars, or 8 quad-hangars, will be located on the southeast side of the field between the runway and the Columbia River highway. The Port will provide paved taxiways to serve the hangar units. WB 4-11. Previous report 2-14

WASHINGTON

HOUSING DEVELOPMENT— Bellevue, Wash.
(Estimated cost $30,000,000)

The Newport Hill housing development on a 576-acre tract between East Channel Bridge and Eastgate on south side of Highway 10 will be built by about 40 independent builders, with supervision by an architectural control committee composed of members of White & Bollard, Inc., 2333 3rd Ave., Seattle. A forty-acre area has street construction nearly completed by Kathman Construction Co., Box 556, Kenmore, and sewers, storm drains and water system construction will be underway soon in this same section by Murphy Bros., Inc., 18537 29th N.E., Seattle, who were awarded this contract for $79,688. Howard T. Harstad & Associates, consulting engineers, 1000 Lenora St., Seattle, have prepared the plat work, and will do the street and utility planning for entire development. A 60-acre area is to be developed next. Kathman Construction Co. will soon begin construction of streets in this section and will also do remainder of street work in the entire project. PD 4-12

BAPTIST CHURCH— Bellevue, Wash.

Bids will be called early this summer for construction of a church building at Lake Washington Blvd. and S.E. 11th, Bellevue, for First Baptist Church, Ralph E. Waud, pastor, 156 100th Ave. N.E., Bellevue. Preliminary drawings are near completion by Lawrence & Hazen, architects, 8626 Roosevelt Way, Seattle. PD 4-15. Previous report 2-11

SHOPPING CENTER— Bellevue, Wash.

Working drawings are underway by W. R. Rounds & Associates, architectural designers, 10300 N.E. 1st, Bellevue, for a two-building, 12,000 sq. ft., neighborhood-type shopping center east of Bellevue. Construction may start the first part of June. PD 4-15

RESIDENCE— Bellevue, Wash.
(Estimated cost $32,000)

Working drawings are underway by W. R. Rounds & Associates, architectural designers, 10300 N.E. 1st, Bellevue, for a residence for Alex Sidie, owner. PD 4-15

■ WAREHOUSE, MAINTENANCE BUILDING— Bellevue, Wash.

Planholders announced for construction of a one-story, 14,400 sq. ft. steel and concrete warehouse and maintenance building in Bellevue. Bids will be opened 3 p.m., April 30, by Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue, in the office of Rushmore & Woodman, architects, J. S. Ditty Bldg., Bellevue.

Planholders: Wick Construction Co., 720 N. 35th; Roxbury Construction Corp., 616 Mercer St.; Puget Construction Co., Inc., 1811 Bush Place; Vaux Construction Co., 127 State St., Kirkland; Venne Beauchamp, Box 637, Everett; Gill Construction Co., 5117 25th N.E.; Norge Construction Co., 5008 Admiral Way; Nelsen Building and Contracting Co., Inc., 1243 Rainier Ave.; Western States Construction Co., Inc., 18800 Highway 99, Lynnwood; Ray Solie Construction Co., 12 W. McGraw; Red-E Construction Co., 6056 37th N.E.; Don Williams & Co., 314 Fairview Ave. N. Of Seattle except as noted.

PD 4-16. Previous report 4-15

● CARL COZIER SCHOOL ADDITION— Bellingham, Wash.
(Estimated cost $34,440)

Bids will be opened 7:30 p.m., April 29, by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, for construction of a one-story and no basement, 2,500 sq. ft., poured concrete two-classroom addition to Carl Cozier Elementary School at 1330 Lincoln in Bellingham. Plans with Galen Bentley, architect, 1130 State St., Bellingham. $25 deposit.

Concrete footings and foundation; 2" x 12" concrete slab floor; glued laminated roof with 3" decking, built-up roofing; frame partitions; steel sash; painted interior and exterior walls; drywall partitions; asphalt tile flooring; acoustical ceilings; rock wool batt and aluminum foil insulation; incandescent lighting; extension to existing steam heating system, unit vents.

SP 4-12. Previous report 11-4

▲ RESIDENCE ADDITIONS— Benton County, Wash.

Two complete bids and one partial received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of residence additions and repairs at Midway Substation, Benton County, about 30 mi. northeast of Sunnyside; Inv. No. [illegible]. Bids opened April 14. COMPLETE BIDS: Joe E. Venne, Sunnyside, (Sched. 1) $14,[illegible]; (2) $2,228; Stoops & Sons, Toppenish, $17,440, $2,862. WB 4-16. Previous report 3-28

● OFFICE SPACE— Bremerton, Wash.

Bids will be opened 3 p.m., April 30, by General Services Administration, room 1[illegible], Federal Office Bldg., 909 1st Ave., Seattle, for providing new office space in the U.S. Post Office, 6th and Pacific, Bremerton. Proj. No. SEA-1060. Plans with above office. SP 4-[illegible]

★ ELEMENTARY SCHOOL ADDITION— Burton, Wash.

Awards to Cascade-Olympic Construction Co., Route 2, Box 131, Shelton, $79,341 (general), Lent's Inc., 279 4th St., Bremerton, $14,579 (mechanical) and Thackery Electric Co., 217 Cota, Shelton, $6,695 (electrical), by Vashon School District No. 402, Hal D. Barton, superintendent, Vashon High School, Burton, for construction of a one-story, 11,252 sq. ft., reinforced concrete addition to Burton Elementary School in Burton. Plans by Branch & Branch, architects, [illegible] E. 11th St., Bremerton.

SP 4-12. Previous report 2-28

▲ PRESBYTERIAN CHURCH— Camas, Wash.

Three general and four electrical bids received in office of Weaver & LaLonde, architects, 204 Central Bldg., Vancouver, for construction of additions and alterations to St. John's Presbyterian Church, N.W. 12th and Birch streets, Camas. Five optional bids, including electrical work, were also received April 11, but the separate general and electrical were more favorable. GENERAL—BIDS: White Construction Co., 118 E. 18th, $85,098 (basic plus alternates); Raley Construction Co., 5709 Evergreen Highway, $85,927; Nieman Construction Co., 2001 Main St., $90,147. ELECTRICAL—TWO LOW BIDS: Ace Electric Co., 5194 N.E. Oregon, Portland, $17,120; Tice Electric Co., 2139 S.E. Belmont St., $17,578. HI BID: Haskin Electric, 5402 4th Plain, $24,545. Of Vancouver except as noted. Bids were $2,[illegible] under the estimate.

WB 4-16. Previous report 1-4

● POST OFFICE BUILDING— Cashmere, Wash.

Bids will be received until June 6 by U.S. Post Office Department, S. G. Schwartz, regional director, Box 3703, Portland, for construction of a 4,408 sq. ft. post office building at Cashmere under the lease-purchase program. Specifications with above office. WB 4-11

BOWLING CENTER— Centralia, Wash.
(Estimated cost $265,000)

Construction to start immediately on an 18-alley bowling center on the former Pacific Highway route between Centralia and Chehalis, according to Rudy Bahlman of

Chehalis, partner in ownership of the enterprise. SC 4-15

STUDENT UNION BUILDING ADDITION— Cheney, Wash.

(Estimated cost $160,000)

Plans will be completed late in June by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane, for construction of a one- and two-story with no basement, 13,041 sq. ft., solid masonry addition to the student union building for Eastern Washington College of Education, Don S. Patterson, president, Cheney.

Concrete footings and foundation; concrete slab floors; timber and steel supporting structures; flat glued laminated roof, steel joists; masonry and frame partitions; concrete stairways; steel sash; face brick exterior, exposed block interior wall finish; exposed masonry, plaster with gypsum lath partitions; asphalt tile flooring; acoustical plaster ceilings; wood and steel doors; folding doors; rigid insulation on roof deck, incandescent lighting, hot water heating system, extension of existing heating plant (oil fuel); mechanical exhaust ventilating system. SP 4-15. Previous report 3-13

FAIR BUILDING— Colfax, Wash.

Bids will be called soon by Whitman County Fair Board, Troy Lindley, secretary, 302 S. Main St., Colfax, for construction of a 72'x100' community building at the Whitman County Fairgrounds at Mockonema, two mi. from Colfax. MH 4-11

SCHOOL ADDITION—College Place, Wash.

Special 20-mill levy was approved in the April 8 election held by College Place School District No. 250, 31 S.E. Ash St., College Place, to finance construction of an addition to the school at College Place. It is hoped bids can be called for construction to start this spring. SC 4-15. Previous report 12-19

HIGH SCHOOL— Colville, Wash.

Bond election will be held May 20 by Colville School District No. 115, Colville, on a $600,000 bond issue to finance construction of a new high school at Colville. MH 4-11. Previous report 9-24

RESIDENCES— Davenport, Wash.

Construction will start soon by Archie E. Seide, Davenport, on five houses in Block 68, Columbia Addition, Davenport. Homes will be worth up to $10,000 each. MH 4-11

■ PHYSICAL EDUCATION BUILDING— Ellensburg, Wash.

Planholders announced for construction of a 390'x150' physical education building with a 100'x100' wing housing a swimming pool on the campus of Central Washington College of Education in Ellensburg. Bids will be opened 2:30 p.m., May 6, by college officials in room C-130, Classroom Bldg., campus. Plans with Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle.

Planholders: Gilbert H. Moen, 512 S. 5th Ave., Yakima; Brazier Construction Co., 309 Pontius, Seattle; W. G. Clark, 408 Aurora, Seattle; Schmid Construction Co., 2604 W. Lynn, Seattle; Venne Beauchamp, Box 637, Everett; John P. Hopkins Co., Inc., 4146 Blvd. Place S.E., Mercer Island; W. M. Yeaman, Box 34, Yakima; Vandivort Construction Co., Box 1647, Wenatchee; Don Akins, Inc., Box 298, Ellensburg; Jensen-Rasmussen, Box 89, Sunnyside; Purvis Construction Co., Box 64, Yardley. PD 4-16. Previous report 4-9

● NEWSPAPER BUILDING—Everett, Wash.

Sub-bids will be received until April 30 by George E. Teufel Co., White-Henry-Stuart Bldg., Seattle, for all work except mechanical and electrical work involved in construction of a newspaper plant for the Everett Daily Herald, 2939 Colby, Everett. Plans by Harold W. Hall, architect, Commerce Bldg., Everett. SC 4-12. Previous report 1-7

BANK, PARKING LOT— Everett, Wash.

(Estimated cost $500,000)

Bids will be called the latter part of April by Peoples National Bank of Washington, 1414 4th Ave., Seattle, for construction of a two-story brick and glass bank on the southeast corner of Wetmore and Hewitt avenues in Everett, with a frontage area of 120' on Hewitt Ave., and 137' on Wetmore. Working drawings are under completion by McClelland & Osterman, architects, Skinner Bldg., Seattle. PD 4-9. Previous report 11-29

SENIOR HIGH SCHOOL— Everett, Wash.

Everett School District No. 2, Auditorium Bldg., Everett, has retained Harry E. Botesch, architect, and F. Edward Brown, associate, Commerce Bldg., Everett, to prepare plans for a senior high school. DC 4-15

■ FAMILY HOUSING— Fairchild AFB Defense Area, Wash.

Planholders announced for construction of 64 Capehart family housing units, consisting of 16 units each of F-07, F-37, F-45 and F-67 sites, in the vicinities of Four Lakes, Medical Lake, Deep Creek and Spokane, Fairchild AFB Defense Area; ENG-45-108-58-95. Bids will be opened 2 p.m., May 14, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle.

Planholders: Brazier Construction Co., 309 Pontius Ave., Seattle; Hebb & Narodick Construction Co., 4225 23rd Ave. W., Seattle; V. O. Stringfellow, Box 5085, Seattle; C. H. Elle Construction Co., Box 1190, Pocatello, Idaho; Gaasland Co., Inc., 1115 Ellis St., Bellingham; Henry George & Sons, Hutton Bldg., Spokane; E. H. Moore & Sons, 693 Mission, San Francisco, Calif.; Murphy Bros., Box 2193, Spokane; Selkirk Co., Box 736, Spokane; Spring Construction Co., 117 Sheffield St., Silver Spring, Md.; Ray L. Martin, Box 466, Portland; L. D. Shilling Co., Box 1637, Moses Lake.

SP 4-12. Previous report 4-11

SHOPPING CENTER—Federal Way, Wash.

An interurban-type shopping center is to be developed on a 240-acre tract on the east side of Highway 99, across from Federal Way Shopping Center, by Federal Shopping Way, Inc., L. H. Leary, Jr., managing director. J. David Jensen & Associates, planning consultants, prepared plot plans. Welden Becket & Associates, architects, Los Angeles, Calif., and Gaston Lance, architect, 319 S. 7th, Tacoma, are among the several architects who will design various buildings in the center, which will include retail stores, hospital, clinic, and a bowling alley. The over-all center will be connected across highway 99 by either overpass or underpass construction, and will be bounded on one side by the proposed Everett-Seattle-Tacoma freeway. PD 4-11

★ SCHOOL ADDITION—Federal Way, Wash.

Award to C. E. Skinner, Box 706, Orting, $83,453, by Federal Way School District No. 210, Federal Way, for construction of two-story, 3,472 sq. ft. (each floor) poured concrete, frame and brick veneer addition to Federal Way High School. Architect: Lea, Pearson & Richards, 240 Stadium Way, Tacoma. DC 4-11. Previous report 3-22

● ASPHALT TILE, UNDERLAYMENT— Fort Lewis, Wash.

Bids will be opened 1:30 p.m., April 24, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for installation of asphalt tile and underlayment in Bldg. Nos. 2-A-7 and A-2-13, North Fort Lewis; Inv. No. 58-168. SP 4-15

● EXTERIOR REPAINTING— Fort Lewis, Wash.

Bids will be opened 1:15 p.m., April 25, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for exterior repainting of officers' mess building No. 3A at Fort Lewis; Inv. No. 58-169. SP 4-16

● ROOF TILE— Fort Lewis, Wash.

Bids will be opened 1:15 p.m., April 23, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for replacement of roof tile and eradication of moss at Fort Lewis; Inv. No. 58-163. SP 4-16

▲ BUILDING ADDITION—Fort Lewis, Wash.

Jardeen Bros. Building Contractors, 1240 S. Sprague, Tacoma, submitted a low bid of $8,560, to Department of the Army, Fort Lewis, for construction of an addition to Headquarters Bldg. No. 14006, Madigan Army Hospital, Fort Lewis; Inv. No. 58-151. Five bids received for the April 11 opening. SP 4-12. Previous report 4-1

● ROOFING— Fort Lewis, Wash.

Bids will be opened 1:30 p.m., April 23, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for reroofing laundry building No. L-1 at Fort Lewis; Inv. No. 58-164. SP 4-16

● EXTERIOR PAINTING—Fort Lewis, Wash.

Bids will be opened 1:15 p.m., April 22, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for repainting the exterior of metal building Nos. AC-29 and AC-30 at Fort Lewis; Inv. No. 58-162. SP 4-16

CAPEHART HOUSING—Geiger AFB, Wash.

(Estimated cost $4,000,000)

Bids will be opened on or about 2 p.m., May 7, by U.S. Air Force, Procurement Office, Geiger AFB, for construction of 228 Capehart housing units at the base. Housing will be of contemporary design with semi-flat roofs, reverse plans and living areas that open onto backyard patios. SC 4-12

■ FIRE STATION ADDITION— Grandview, Wash.

Planholders announced for construction of an addition to the fire station in Grandview, on which bids will be opened 8 p.m., April 22, by Fire Chief, Fire Station, Grandview. Plans with Rothe & Rothe, architects, W. 807 Yakima Ave., Yakima.

Planholders: Puterbaugh Construction Co., Grandview; Robert Wrege, Grandview; Harold Tuttle, Grandview; Stoops & Sons, Toppenish; Jensen-Rasmussen & Sons, Sunnyside. IG 4-16. Previous report 4-10

★ FIRE STATION— Harrah, Wash.

Award to Schademan Bros., Toppenish, $13,050, by Rex Putnam, Fire Chief, Harrah, for construction of a one-story block and concrete fire station at Harrah. Plans by

K-Lath Safety Ceilings resist earthquake.

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IG 4-15. Previous report 4-5

▲CHURCH SCHOOL ADDITION— Kennewick, Wash.

Seven bids received by Leroy M. Sullivan, chairman of building committee, First Methodist Church, Kennewick, for construction of a six-classroom church addition to the church. Plans by Caron & Moe, architects, 128-B Vista Way, Kennewick. Bids opened April 3. TWO LOW: B. R. Chapman, 215 E. 36th Ave., Kennewick, $107,241; Hale Construction Co., Box 782, Pasco, $107,363. HI BID: Jensen-Rasmussen & Co., Box 89, Sunnyside, $116,900.

SP 4-11. Previous report 3-28

●HIGH SCHOOL ADDITION— Kirkland, Wash.

Bids will be opened 8 p.m., May 8, by Lake Washington School District No. 414, in superintendent's office, 10903 53rd St. N.E., Kirkland, for addition and alterations to Lake Washington High School in Kirkland. Separate bids may be submitted for general, mechanical and electrical contracts, or one bid for entire work. Certified check, cashier's check, bid bond 5%, including alternates. Plans with Mallis & DeHart, architects, after April 17, at 631 Lyon Bldg., Seattle. PD 4-11. Previous report 2-14

RESIDENCE— Kirkland, Wash.

Preliminary drawings are underway by W. R. Rounds & Associates, architectural designers, 10300 N.E. 1st, Bellevue, for a three-story residence on a sloping site at Wildwood Lane near Kirkland, for David Diehl, owner. PD 4-15

▲FLUORESCENT LIGHTING FIXTURES— LaCrosse, Wash.

Three bids received by LaCrosse School District No. 260, Don Anderson, superintendent, LaCrosse, for installation of fluorescent lighting fixtures on 13 rooms at the school in LaCrosse. Bids opened April 7. LOW BID: Schoeff Electric Co., LaCrosse, $1,963 (four lights per room).

SP 4-12. Previous report 4-1

SCHOOL IMPROVEMENTS— Lake Stevens, Wash.

A special election will be held May 6 by Lake Stevens School District, Lake Stevens, on two issues; 1—$200,000 bond issue for the building fund, 2—20 mill levy to raise $55,000 for same fund. The fund would finance construction of additional classroom space in the district. DC 4-12

★LIFEBOAT STATION REPAIRS— LaPush, Wash.

Award to Gunnar Hedstrom, 307 31st, Hoquiam, $2,062, by 13th Coast Guard District, 618 2nd Ave., Seattle, for replacement and/or reconditioning of window, door openings, gutter and downspouts at Quillayute River Lifeboat Station, LaPush; FS-1722.

SP 4-11. Previous report 3-29

■COLLEGE BUILDINGS—Longview, Wash.
(Estimated cost $180,000)

Planholders announced for construction of the one-story and no basement, poured concrete and solid masonry library addition and first unit of science building at Lower Columbia Junior College in Longview. Bids will be opened 5:30 p.m., April 29, by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview. Plans with McGuire & Muri, architects, 231 Broadway, Tacoma.

Planholders: K. T. Henderson, 1362 Colorado; Amos J. Peters, 747 Commerce Ave.; Harold M. Hill, 1116 15th Ave.; Quoidbach Construction Co., 1422 Commerce Ave. All of Longview. SP 4-16. Previous report 4-8

▲CITY BUILDING— McCleary, Wash.

Eleven bids received by Town Council, City Hall, McCleary, for construction of a 3,300 sq. ft. frame on slab with brick veneer addition to the Fire Hall for use as a power and light building. Plans by Wohleb & Wohleb, architects and engineers, 715 S. Washington, Olympia. Bids opened April 8. TWO LOW: G. Kirkebo & Son, 1410 Mountain View, Tacoma, $38,548; Davis Construction Co., 1139 W. 64th, Seattle, $41,798. HI BID: Moberg Construction Co., Route 2, Box 729, Tacoma, $53,832.

SP 4-15. Previous report 4-1

●ELEVATOR SHAFT— Montesano, Wash.

Bids will be opened 2 p.m., April 21, by Grays Harbor County Commissioners, Courthouse, Montesano, for construction of an elevator shaft and modification to existing boiler room in the Courthouse at Montesano. Specifications with Robert F. Street, architect, Lafayette Bldg., Aberdeen. Cashier's check 5%. SC 4-11

▲ADMINISTRATION BUILDING ADDITION— Opportunity, Wash.

Bids received by Central Valley School District No. 356, N. 607 Pines Road, Opportunity, for construction of 1,400 sq. ft. frame and masonry addition and alterations to the administration building at Opportunity. Plans by Victor Louis Wulff, architect, W. 1526 Riverside, Spokane. Bids opened April 8. LOW BIDS: Hansen & Klassen, N. 1403 Mamer Road, Spokane, $30,756; Stevens Construction Co., 11904 E. 19th, Spokane, $30,795; Bettinger & Shaw, E. 14312 Valley Way, Spokane, $31,857.

LL 4-12. Previous report 4-5

★ACOUSTICAL TILE, LIGHTING, FLOORING, PAINTING, DOORS— Paine AFB, Wash.

Awards by U.S. Air Force, Procurement Office, Paine AFB, to Metropolitan Construction Co., 1008 Broadway, Everett, $1,835, for replacing 3,300 sq. ft. acoustical tile; Edmonds Construction Co., Edmonds, $5,894, for painting and installing lights and sheet rock in building; Atherton Construction Co., Terminal Sales Bldg., Seattle, $5,593, for electric power, sliding doors, siding for building.

HH 4-11. Previous reports 3-28, 2-26, 3-14

●BUILDING RENOVATIONS— Port Townsend, Wash.

Bids will be opened 2 p.m., April 29, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for renovation to four existing frame buildings and moving and relocating of an existing 34'x14' frame building, Harbor Defense Unit (Bremerton), Port Townsend; Spec. No. 12329/58. Specifications with above office.

Work includes providing renovation and installation of galley fixtures and cold storage to Bldg. 426; removal of partitions and other alterations to Bldg. 416 and the moving of the front door, addition of a fire escape, removal of partitions and other alterations to Bldg. 401. SP 4-16

CLINIC REMODELING, ADDITION— Redmond, Wash.

Further study is being made of five bids received at the March 27 bid opening by John Way, M.D., owner, for a one-story, 400' (approximately) addition and remodeling to existing Way Clinic in Redmond. Plans by Paul Hayden Kirk A.I.A. & Associates, architects, 615 Lakeview Blvd., Seattle. PD 4-12

●ROOF REPAIR— Richland, Wash.

Bids will be opened April 29 by Atomic Energy Commission, Box 550, Richland, for roof repair on 111 buildings in various production areas at Hanford Works. Plans with above office. SP 4-11

EXTERIOR PAINTING— Richland, Wash.

Bid opening of April 9 has been postponed indefinitely by Atomic Energy Commission, Box 550, Richland, for exterior painting of 25 commercial buildings in Richland. SP 4-11. Previous report 4-2

HYDRAULIC PRESS INSTALLATION— Richland, Wash.

Bid opening of April 10 has been postponed indefinitely by Atomic Energy Commission, Box 550, Richland, for installation of a 300-ton capacity hydraulic press and related work in an existing building in the 300 Area at Hanford Works, Richland.

SP 4-11. Previous report 3-22

▲BUILDING ADDITIONS, ALTERATIONS— Richland, Wash.

Hale Construction Co., W. Court St., Pasco, submitted the low bid of nine, in amount of $52,800 (including 29 table units), to $46,350 (excluding table units), to Atomic Energy Commission, Box 550, Richland, for construction of one-story wood frame building additions in two areas, alterations to existing lunch room at a third area at Hanford Works. Hale's name was inadvertently omitted in the previous report. Bids LOW: Raymond J. Britton, Box 667, Richland, $55,244, $47,144. HI BID: Joe E. Vesco, 507 12th St., Sunnyside, $60,738, $[illegible]. Government estimate, $62,640, $54,500.

SP 4-11. Previous report 4-[illegible]

CHURCH BUILDING— Seattle, Wash.
(Estimated cost $200,000)

Durham, Anderson & Freed, architects, have been retained to prepare plans for a church to be built at 17404 8th Ave. N.W., adjacent to existing church, for Bethel Lutheran Church of Shoreline, Dr. Carl G. Peterson, pastor. PD 4-[illegible]

OFFICE BUILDING— Seattle, Wash.

Working drawings will be started soon by Ibsen A. Nelsen and Russell B. Sabin, architects, 1314 E. 43rd, Seattle, for a [illegible] sq. ft., reinforced concrete office building to be constructed on the northeast corner of 5th Ave. N. and John St., Seattle, for McMahon & Webster, owners. An asphalt parking area is planned. PD 4-[illegible]

EPISCOPAL CHURCH— Seattle, Wash.

Preliminary drawings will be started soon by Grant, Copeland & Chervenak, architects, 420 E. Howell, Seattle, for the first unit of a 500-person capacity church and parish hall on a three-acre site on the north side of N.E. 125th St., between 22nd and 23rd avenues N.E., Seattle, for St. George's Episcopal Parish of Lake City, James G. Long, Jr., vicar, 4037 E. 109th, Seattle.

PD 4-12. Previous report [illegible]

CHURCH BUILDING— Seattle, Wash.

Preliminary drawings are underway by Grant, Copeland & Chervenak, architects, 420 E. Howell, Seattle, for a church building to be constructed at E. 147th and 28th N.E., Seattle, for Christian Reformed Church, Peter deJon, pastor. PD 4-[illegible]

SHOE STORE EXPANSION—Seattle, Wash.
(Estimated cost $300,000)

Preliminary drawings are underway by McClelland & Osterman, architects, Skinner Bldg., Seattle, for remodeling 50,000 sq. ft. of space in building adjacent to existing shoe store, for Nordstrom's, Inc., 5th Ave. and Pike St., Seattle. Additional space will nearly double the size of the present three-story structure. Construction is to start in August. PD 4-12. Previous report [illegible]

■MUSICIANS BUILDING— Seattle, Wash.

Planholders announced for construction of one-story and partial basement, 7,600 sq. ft. reinforced concrete and masonry building on 3rd Ave. and Cedar St., Seattle. Bids will be opened 2 p.m., April 22, by Musicians Club, Local 76, Chet Ramage, business representative, 309 Cedar St., Seattle. Plans with Ibsen A. Nelsen and Russell Sabin, architects, 1314 E. 43rd St., Seattle.

Planholders: W. G. Clark Construction Co., 408 Aurora; Jentoft & Forbes, 927 W. 46th; Farwest Construction Co., 608 W. 46th; O. B. Daniels, Box 156, Mercer Island; Puget Construction Co., 1811 Bush Place; O. L. Turnquist, 1305 Republican; Sound Construction Co., 1300 Aloha St.; Nels Hedin, 2212 Federal; C B S Construction Co., 11115 7th N.W.; A. W. Robertson, 9529 N.E. Lake Washington Blvd., Bellevue.

PD 4-12. Previous report [illegible]

★LIGHTS, LADDERS— Seattle, Wash.

Award to Donald W. Close Co., 2811 12th S.W., Seattle, $1,150, by General Services Administration, Seattle, for installation of elevator hoistway lights and pit access ladders in the U.S. Public Health Service Hospital, 14th Ave. S. and Judkins St., Seattle; Proj. SEA-1007. Bids opened March 25. SP 4-11. Previous report [illegible]

INSTALL ELECTRICAL EQUIPMENT— Seattle, Wash.

Project cancelled by Boeing Airplane Co., Seattle, for installation of electrical power equipment in a portion of Warehouse No. 2 at Corps of Engineers, 4735 E. Marginal Way, Seattle. SP 4-11. Previous report 11-27

★ROOFING— Seattle, Wash.

Award to Fuller Roofing Co., 5120 14th N.W., Seattle, $2,764, by Department of the Navy, Bldg. No. 11, U.S. Naval Air Station, Seattle, for installation of new 18" shingles and flashing on married officers' quarters at the Naval Air Station; Spec. No. 6608/58. Five bids received for April 4 opening.
SP 4-11. Previous report 3-18

★BUILDING ALTERATIONS— Seattle, Wash.

Award to Gwinn Construction Co., 914 Rainier Ave., Seattle, by Safeway Stores, Inc., Construction Division, 1200 Westlake Ave. N., Seattle, for alterations to the Safeway store at 2810 Eastlake Ave. in Seattle. Plans by Oliver W. Olson, architect, 2437 Market St., Seattle. Bids were received until midnight, March 25.
SP 4-11. Previous report 3-25

★MAYWOOD ELEMENTARY SCHOOL— Seattle, Wash.

Awards to Poston Construction Co., 5619½ University Way, Seattle, $226,890 (general), A. H. Merchant Plumbing and Heating Co., 1633 12th, Seattle, $85,212 (mechanical) and Watts Electric and Appliance, 1722 Market St., Seattle, $27,777 (electrical), by Highline School District No. 401, Carl Laudenbach, business manager, 253 S. 152nd St., Seattle, for construction of the one-story, 22,000 sq. ft., brick Maywood Elementary School at 14th Ave. S. and S. 200th St. in Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.
SP 4-11. Previous report 3-28

▲BUILDING ALTERATIONS—Seattle, Wash.

Bids received by Board of Regents, University of Washington, Seattle, for alterations including laboratory casework, mechanical and electrical work to lower floor of Dental School wing of Medical, Dental, Nursing School Building, Division of Health Sciences. Plans by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. Ten bids received at April 10 bid opening.
LOW BIDS: E. F. Shuck Construction Co., 535 Pontius, Seattle, $59,805; W. G. Clark Construction Co., 408 Aurora, Seattle, $61,000.
HID BID: Red-E Construction Co., 6056 37th N.E., Seattle, $74,978.
PD 4-11. Previous report 4-3

DEPARTMENT STORE— Seattle, Wash.

John Graham & Co., architects and engineers, 1426 Fifth Avenue Bldg., Seattle, have been retained to prepare plans for a department store in the proposed Southcenter Shopping Center tract which adjoins the route of the Tacoma-Seattle-Everett freeway, for Southcenter Corp., a recently organized subsidiary of Allied Stores Corp., Seattle. Preliminary layout of the entire project has been made, and prospective tenants needs are being studied. Further progress on plans for the store will be contingent upon final layout decisions for the entire center, which is part of 550-acre area being developed for Andover, Inc., c/o White & Bollard, brokers, 2333 3rd Ave., Seattle. Center will be adjacent to an industrial park in the area. (PCD 11-15-57).
PD 4-9. Previous report 12-13

RESEARCH CENTER ADDITION, REMODELING— Seattle, Wash.
(Estimated cost $1,000,000 including equipment)

Bids will be received from a select list of bidders early in May for the general contract for construction of 30,000 sq. ft. addition and remodeling to the research and administrative building at 3400 13th S.W., for American-Marietta Co. Bids will be called a few weeks later for the mechanical and electrical contracts. Plans for addition include 21 unit laboratories and six process-development areas for resin research; new quality-control laboratories; areas and equipment for evaluation and testing of wood products. Remodeling of existing 8,500 sq. ft. building is included in the plans, which are by the chief engineer for the company. Installation of owner-furnished equipment is to be under the general contract.
PD 4-3

SHOPPING CENTER— Seattle, Wash.

Preliminary layout sketches have been made and prospective tenant needs are being studied by John Graham & Co., architects and engineers, 1426 Fifth Avenue Bldg., Seattle, for the proposed Southcenter Shopping Center which will be adjacent to the industrial park portion of a 550-acre area recently acquired for Andover, Inc., c/o White & Bollard, 2333 3rd Ave., Seattle. Location of the site adjoins the route of the Tacoma-Seattle-Everett freeway.
PD 4-9

ADMINISTRATION BUILDING— Seattle, Wash.

Decker, Christenson & Kitchin, architects, 1411 Fourth Avenue Bldg., Seattle, have been retained by Board of Regents of University of Washington, Seattle, to prepare plans for a new business administration building on the campus. PD 4-3. Previous report 12-18

RETAIL BUILDING— Seattle, Wash.

Working drawings will be started in mid-April by Nickum, Lamont & Fey, architects and engineers, 71 Columbia St., Seattle, for a two-story building on the northeast corner of 8th Ave. S. and Lane St., for Seattle Art and Photo Supply Co., Inc., 359 Roy St., Seattle. PD 4-3. Previous report 3-13

UNIVERSITY LIBRARY— Seattle, Wash.

Bids will be called in early summer by Board of Regents, University of Washington, Seattle, for the new library on the campus. Working drawings are underway by Bindon & Wright, architects, Hoge Bldg., Seattle.
PD 4-3

CHRISTIAN SCIENCE NURSING HOME— Seattle, Wash.

Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, have been retained by Sunrise House Association, John Bolton, president, 412 29th Ave. S., Seattle, to prepare plans for a residence type Christian Science nursing home to be constructed on a 1.35 acre site at 30th Ave. and King St., Seattle.
PD 4-8

●ROOFING— Seattle, Wash.

Bids will be opened 3 p.m., April 29, by Department of the Navy, Bldg. No. 11, U.S. Naval Air Station, Seattle, for removal of existing gravel patching of existing built-up roof and installation of 3-ply 15 lb. asphalt saturated felt with a new gravel covering on Bldg. 30, U.S. Naval Air Station, Seattle; Spec. No. 6610/5. SP 4-15

●WOODROW WILSON JUNIOR HIGH ADDITION— Seattle, Wash.

Bids will be opened 2 p.m., May 13, by Seattle District No. 1, Frank Brock, secretary, 815 4th Ave. N., Seattle, for construction of a one-story, 40,000 sq. ft. addition to Woodrow Wilson Junior High School, 1330 N. 90th, Seattle. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check, bid bond 5%. Separate contracts for general, mechanical, electrical. Addition will include three buildings, one containing a cafeteria and kitchen, another having nine classrooms, the third housing music, band, choral and two classrooms. An addition will be made to existing boiler room, and a new boiler furnished and installed.

Concrete slab-on-grade; steel beams, glued laminated beams; tar and gravel surface on built-up roof; steel sash; masonry exterior; concrete block and plaster partitions; asphalt tile, vinyl, ceramic tile flooring; acoustical tile ceilings; connection with existing steam heating system. Covered walks will connect the buildings.
PD 4-15. Previous report 2-14

APARTMENT— Seattle, Wash.

Preliminary plans are underway by Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle, for a 32-unit, four-story apartment at Garfield St. and Taylor Ave., Seattle, for Garfield Terrace Corp., Seattle, developer and owner. Schmid Construction Co., one of the owners, will be the contractor.
PD 4-15

APARTMENT— Seattle, Wash.

Site clearing is underway in preparation for construction of a 22-unit, three-story and basement apartment on 30th S.W. and W. Genesee St., Seattle, by Mullally Built Homes, Inc., owner-contractor, 3109 Avalon Way, Seattle. Plans by George Bolotin, architect, 915 E. Pine St., Seattle.

Flat roof, rigid insulation in roof; brick veneer, stucco or weishboard exterior; aluminum sash; blanket insulation in walls; drywall partitions; asphalt tile, asbestos vinyl, (oak optional) flooring; electric baseboard heating; 22-car capacity asphaltic concrete off-street parking area.
PD 4-15. Previous report 1-7

■RETIREMENT HOME ADDITION— Seattle, Wash.

Planholders announced for construction of a 107'x45', two-story addition to wing addition which is now under construction at the retirement home at 7100 47th S.W., Seattle. Bids will be opened 3 p.m., April 22, by Kenney Presbyterian Home, above address, in office of Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.

Planholders: Herbert U. Taylor, 11239 Arroyo Beach Place S.W.; B. F. Turnbull, Inc., 4351 Leary Way; Neise Mortensen & Co., Inc., 1021 Westlake N.; Brazier Construction Co., 309 Pontius; H. Halvorson, Inc., 20054 Pacific Highway S.; W. G. Clark Construction Co., 408 Aurora; Jentoft & Forbes, 927 W. 46th; Veale Construction Co., 3nd and Cherry Bldg.; Nels Hedin & Co., 2312 Federal. Of Seattle.
PD 4-16. Previous report 4-8

■CONCESSION BUILDING—Seattle, Wash.

Planholders announced for construction of a 15'x24', concrete block, one-story concession building in Woodland Park Zoo, near the feline house. Bids will be opened 10 a.m., April 22, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle. Plans with the Park Department, 100 Dexter Ave., Seattle; Contract No. 16.

Planholders: Structure Service Co., 1802 Fairview Ave. N.; Gill Construction Co., 5117 25th N.E.; Red-E Construction Co., 6056 37th N.E.; Imhoff & Johnson Construction Co., Route 1, Box 224, Buckley; Stewart-Martens Co., 9410 Stone Way; Dale M. Madden, 3010 E. 163rd; Roxbury Construction Corp., 616 Mercer; Rasmussen & Funk Co., 2811 3rd Ave.; Nelsen Building and Contracting Co., Inc., 1243 Rainier Ave. Of Seattle except as noted. PD 4-16. Previous report 4-8

■JUNIOR HIGH SCHOOL ALTERATIONS— Seattle, Wash.

Planholders announced for alterations to Nicholas Murray Butler Junior High School, Fremont Ave. and N. 170th St., Seattle, and alterations to Thomas Hunt Morgan Junior High School 25th N.E. and E. 160th St., Seattle. Bids will be opened 2 p.m., April 30, by Shoreline School District No. 412, Myron Ernst, secretary, Administration Bldg., E. 158th and 20th Ave. N.E., Seattle. Work in

SUB BIDS WANTED

Project Contract NBy 3386, Various Structures and Facilities to be constructed at the Andersen Air Force Base, Guam, M. I.

Bids to be mailed to Hawaiian Dredging-Pomeroy-Koster, P. O. Box 3468, Honolulu, Hawaii, to arrive prior to 29 April 1958.

each school includes partition work and extensive casework in various laboratories and in the health area. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Planholders: Gill Construction Co., 5117 25th N.E.; E. F. Shuck Construction Co., 535 Pontius; Carl G. Anderson, 12362 35th N.E.; Norge Construction Co., 5008 Admiral Way; E. L. Livers, 10318 3rd N.W.; Venne Beauchamp, Box 637, Everett. Of Seattle except as noted. PD 4-16. Previous report 4-9

COOPERATIVE APARTMENT— Seattle, Wash.

Working drawings are underway by George Bolotin, architect, 915 E. Pine, Seattle, for a 100,000 sq. ft., 112-unit cooperative apartment building in the 300 block on Republican St., Seattle, to be known as Rochdale House, Inc. Financial arrangements are still being made.

PD 4-15. Previous report 9-20

● SCHOOL ADDITION, SHOPS— Tacoma, Wash.

Bids to be opened 7:30 p.m., April 29, by Fife School District No. 417, Route 2, Box 85, Tacoma, for construction of Unit A—general shop building, Unit B—construction of classroom addition to existing farm shop. Plans with Charles Rueger & Associates, architects, 225 Tacoma Ave. S., Tacoma. $25 deposit. Certified check, cashier's check or bid bond 5%. DC 4-11. Previous report 3-19

▲ ELEMENTARY SCHOOL ADDITION— Tacoma, Wash.

Bids received by Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma, for construction of a 7,000 sq. ft. six-classroom addition to Southgate Elementary School at 10202 Earley in Tacoma. Plans by Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma.

Eight bids received for April 10 opening. Following are basic bids. TWO LOW: J. Kirkebo & Son, 1410 Mountain View, Tacoma, $91,941; Standard Construction Co., 315 E. 25th, Tacoma, $94,930. HI BID: Jardeen Bros., 1240 S. Sprague, Tacoma, $104,750. SP 4-11. Previous report 4-3

CEMENT-ASBESTOS TERMINAL— Vancouver, Wash.
(Estimated cost $2,000,000)

Ideal Cement Co., Cris Dobbins, president, Northern Life Tower, Seattle, has acquired a tract of land on the Columbia River at Vancouver for construction of a cement-storage distribution terminal. SC 4-15

INDUSTRIES BUILDING ADDITIONS— Walla Walla, Wash.

Bids may be called about May 15 by Department of Institutions, Olympia, for construction of a five-wing addition to the Industries Bldg. at Washington State Penitentiary in Walla Walla. Working drawings are underway by Benjamin F. McAdoo, Jr., architect, 1718 Olive Way, Seattle.

PD 4-8. Previous report 11-30

HIGH SCHOOL— Warden, Wash.
(Estimated cost $375,000)

Mallis & DeHart, architects, 631 Lyon Bldg., Seattle, have been retained by Warden School District No. 146, Carl O. Witt, superintendent, Warden, to prepare plans and specifications for a new high school at Warden.

SP 4-11. Previous report 3-15

MEDICAL CLINIC— Wenatchee, Wash.

Preliminary drawings are underway by Naramore, Bain, Brady and Johanson, architects and engineers, 904 7th Ave., Seattle, for a 21,000 sq. ft. medical clinic to be constructed on the corner of 9th and Chelan streets in Wenatchee, for Wenatchee Medical Clinic, Inc. PD 4-11

● SCHOOL— Wilbur, Wash.

Bids will be opened 2 p.m., May 13, in the office of Kenneth Brooks, architect, 707 W. 5th, Spokane, for construction of a two-story, 32,000 sq. ft., reinforced concrete brick exterior elementary and high school building adjacent to existing buildings (Project A), and for demolition of the old three-story classroom building except the 1921 gymnasium which will be remodeled and the 1946 gymnasium on which some minor remodeling work will be done (Project B) at Wilbur. Owner: School District No. 200, William W. Nickerson, superintendent, Wilbur. Plans with the architect. $50 deposit. Project B calls for one contract; Project A includes, at the option of the bidder, one single contract or separate general, mechanical and electrical contracts. There is a third option of one bid for both projects. Project A also entails all site development including grading, sidewalks, lawn sprinklers and playgrounds. SC 4-15

VARIOUS STRUCTURES, UTILITIES

(Andersen Air Force Base, Guam)

Bids will be opened May 1 by 12th Naval District, Guam, M.I., for construction of special weapons training general building, three shops, organizational maintenance, general purpose buildings, two dormitories, airmen buildings, two officers' quarters and washrack - aircraft at Andersen Air Force Base, Guam; Proj. NBy 3386.

Sub bids will be received until April 29 by J. H. Pomeroy & Co., Inc., 120 Montgomery St., San Francisco, and until April 28 by M. D. Burns & Co., 1 Drumm St., San Francisco. DM 4-15

● BUS SHOP, SCHOOL ALTERATIONS— Winslow, Wash.

Bids will be opened 8 p.m., May 6, by Bainbridge Island School District No. 303, Winslow, in superintendent's office, Comm. William Bainbridge Elementary School Bldg., for construction of a bus maintenance building and alterations to the original Senior High School building, Winslow. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check, bid bond 5%. Bids may be for one or both of the contracts. PD 4-12

BOWLING ALLEY FIRE— Yakima, Wash.
(Estimated loss $250,000)

Fire has destroyed the Skookum Lanes Bowling Alley on Lincoln Ave. in Yakima, according to owners Carroll Russell and J. F. Altmeyer, 2303 Summitview Ave., Yakima. IG 4-12

ELEMENTARY SCHOOL— Yakima, Wash.
(Estimated cost $140,000)

Bids may be called early in May by School District No. 7, Administration Bldg., S. 7th Ave., Yakima, for construction of a one-story, six-classroom elementary school at 28th and N. Lincoln Ave. in Yakima. Plans have been sent for final approval to the Board of Education, Olympia, by Gochnour & Marble, architects, Miller Bldg., Yakima. IG 4-5. Previous report 3-18

● CATHOLIC HIGH SCHOOL— Yakima, Wash.
(Estimated cost $500,000)

Bids will be opened 2 p.m., April 30, in the office of Thomas F. Hargis, Jr., and Clarke Goldsworthy, associate, Miller Bldg., Yakima, for construction of a two-unit, one-story, 41,000 sq. ft., brick and concrete block Catholic senior high school on Minnesota Ave. in Yakima, for the Roman Catholic Diocese of Yakima, Liberty Bldg., Yakima. Plans with the architect. $50 deposit.

Concrete slab on grade; glued laminated beams, steel pipe columns; built-up roofing with marble chip; frame partitions; steel sash, stained glass windows in chapel; plaster and masonry interior wall finish; plaster with gypsum lath partitions; ceramic tile and vinyl tile flooring, carpeting in chapel; acoustical tile ceilings; rigid insulation over t&g deck, blanket insulation; fluorescent lighting; hot water heating system, unit vents.

IG 4-11. Previous report 3-21

PHARMACY— Yakima, Wash.

Construction to start immediately by Paul Cook, 307 Crescent Drive, Yakima, on a one-story and partial basement, 24x60', Roman brick pharmacy at 1103 W. Spruce St. in Yakima, for Tuft Drug Co., Roy Tuft, owner, 302 W. Yakima Ave., Yakima. Concrete floors with vinyl tile flooring; wood joist, flat roof, gravel surface; exposed shalex interior walls with paint finish; acoustical tile ceilings; aluminum sash; gas-fired furnace.

IG 4-15

ELEMENTARY SCHOOL ADDITION— Zillah, Wash.

Bond election will be held May 20 by Zillah School District No. 205, Milford T. Crawley, superintendent, Zillah, on a $[illegible] bond issue to finance construction of a six-classroom addition to the elementary school in Zillah. The bond issue was defeated in the March 11 election. Architects: Cowan & Paddock, Larson Bldg., Yakima.

IG 4-11. Previous report 2-[illegible]

IDAHO

SCHOOL ADDITION— Arco, Idaho

Bids will be called soon by Joint Class A School District No. 111, Butte, and Custer counties, for construction of two additional classrooms and a front entrance facing south to provide a four-classroom junior high school unit at Arco. The junior high will be separate from the main high school but adjacent to the auditorium, gymnasium and lunchroom. The school district will receive $32,500 in federal funds for the project.

SC 4-11

LODGE HALL— Blackfoot, Idaho
(Estimated cost $25,000)

Plans nearly complete by Al Johnson of Idaho Falls for a one-story, 3,600 sq. ft. cinder block and brick Odd Fellows lodge hall at N. Broadway and W. Idaho in Blackfoot. Bids will be called later this month by the Blackfoot Odd Fellows, John Christiansen, planning chairman, Blackfoot. Concrete slab on grade; self supporting roof of glued laminated beams giving open ceiling effect; natural gas heating system.

SP 4-11. Previous report 3-[illegible]

DORMITORY— Boise, Idaho

The Boise Junior College Board of Trustees, Eugene B. Chaffee, president, Boise, will request a $600,000 loan from the Federal Housing and Home Finance Agency, Federal Office Bldg., Seattle, for a 200-man dormitory for the college.

GH 4-1

SANCTUARY— Boise, Idaho
(Estimated cost $50,000)

Fund drive is underway by Immanuel Evangelical Lutheran Church, Dr. H. Karl Ladwig, pastor, 815 N. 7th, Boise, to finance construction of a new sanctuary at 7th and Fort St. in Boise.

GH 4-1

★ PAPER CONTAINER PLANT— Burley, Idaho
(Estimated cost $1,000,000)

Award to F. E. Patterson, 1712 Harvey, Boise, by Boise Cascade Corp., 114 S. 10th, Boise, for construction of a plant for corrugated paper containers on a ten-acre site about one mi. southwest of Burley. Contract calls for construction of building, site preparation, installation of air, water and steam piping. The electrical contract has not been awarded yet.

DC 4-11. Previous report 3-1

ELEMENTARY SCHOOL— Caldwell, Idaho

An election will be held for the third time on May 6 by School District No. 132, Caldwell, on a $190,000 bond issue to finance construction of a 13-classroom elementary school. The school building would cost $150,000 and equipment an additional $18,000. Balance of the bond issue would be used for remodeling work in Lincoln, Van Buren and Jefferson Junior High School. Plans for the elementary school are being prepared by Lee R. Cooke, architect, 1222 1st St. S., Nampa. DC 4-9. Previous report 2-27

BANK— Cottonwood, Idaho
(Estimated cost $65,000)

Hugh Richardson, architect, Weisgerber Bldg., Lewiston, has been retained by Idaho First National Bank, John A. Schoonover, president, 205 N. 10th, Boise, to prepare

plans for a new 50'x65' brick and masonry branch bank on Main St. in Cottonwood. DR 4-15

ELEMENTARY SCHOOL— Council, Idaho

Bond issue for $185,000 was approved in the April 7 election held by School District No. B-13, Jack Wing, superintendent, Council, to finance construction of a ten-classroom elementary school. Plans are being prepared by Nat J. Adams, architect, Idaho Bldg., Boise. SC 4-15. Previous report 2-6

HOSPITAL— Hailey, Idaho

Bond issue of $125,000 was approved in the April 5 bond election held by Blaine County Commissioners, Courthouse, Hailey, to finance construction of a county hospital. SC 4-12. Previous report 3-22

BUILDINGS, UTILITIES— Idaho Falls, Idaho

Eight bids received April 9 by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of buildings including combined control, reactor and equipment building and guardhouse, utilities and facilities for the Gas Cooled Reactor Experiment at the National Reactor Testing Station in Idaho: Inv. No. AT(10-1)-945. TWO LOW: Farnsworth & Chambers Co., Inc., Box 74, Houston, Texas, $1,357,779; Petroleum Construction and Engineering Co., 11941 Wilshire Blvd., Los Angeles, Calif., $1,417,973. HI BID: Sumner Sollitt Co., 307 N. Michigan Ave., Chicago, Ill., $1,650,804. SP 4-12. Previous report 3-15

NATIONAL GUARD ARMORY— Idaho Falls, Idaho

(Estimated cost $100,000)

Bids will be called (as soon as plans are approved in Washington, D.C.) by Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise, for construction of a National Guard armory, to replace the present Tautphaus Park Armory, to be located on a site just west of the Veterans housing at 21st St. and Leslie Ave. in Idaho Falls. Plans by C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls. GH 4-11. Previous report 12-4

BUILDING, WASTE SYSTEM— Idaho Falls, Idaho

(Estimated cost $450,000)

Bids will be called soon by Atomic Energy Commission, Box 1221, Idaho Falls, for construction of a Process Improvement Facility, involving a 139'x103' pumice block building with concrete roof slab and metal deck, in the Chemical Processing Plant area of the National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-948. Building will be subdivided into laboratories, offices and change rooms. A contaminated waste system, perimeter heating and normal electrical and plumbing facilities will be required. SP 4-11

■ENGINE TEST FACILITY MODIFICATION— Idaho Falls, Idaho

Planholders announced for modification of the Initial Engine Test facility including building modification, road construction and fuel lines and storage tank at Aircraft Nuclear Propulsion Project, National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-949. Bids will be opened 3 p.m., April 25, by Atomic Energy Commission, Box 1221, Idaho Falls.

Planholders: Watkins Construction Co., Box 1786, Boise; Arrington Construction Co., Box 881, Idaho Falls; Opus General Contractors, 1617 Pennsylvania Blvd., Philadelphia, Pa.; Teller Construction Co., 845 N. Graham, Portland, Ore., and Box 435, Idaho Falls. SP 4-15. Previous report 4-12

HOSPITAL REMODELING— Lewiston, Idaho

(Estimated cost $600,000)

The Boise State Department of Health has approved plans for improvements to St. Joseph's Hospital, 4th Ave. and 6th St., Lewiston, as a federal aid project. Work will include a new boiler room; removal of older section of building and addition of laundry facilities, administrative offices, staff room, obstetrical department and physiotherapy and diagnostic treatment units. Hospital manager is John Erndsdorff. DR 4-8

CHURCH ADDITION— Lewiston, Idaho

Construction will start soon on a one-story and basement, 50'x100', pumice block with brick facade addition to the Lewiston Orchards Baptist Church, 10th St. and Bryden Ave., Lewiston Orchards. This is the second unit of a three-unit plan and will serve as a temporary auditorium and Sunday school classroom area. Work will be done partly by volunteer labor. DR 4-5

REMODEL ADMINISTRATION BUILDING— Moscow, Idaho

Working drawings underway by Wayland & Cline, architects, 624 Idaho Bldg., Boise, for remodeling the second and third floors of the south wing of the Administration Bldg. to provide classrooms and office space at the University of Idaho in Moscow. Project must be approved by the next Legislature. GH 4-12. Previous report 1-16

HOME MANAGEMENT HOUSE— Moscow, Idaho

(Estimated cost $41,000)

Project temporarily delayed by University of Idaho Board of Regents, Moscow, for construction of a one-story and partial basement, 2,400 sq. ft. building on the university campus in Moscow. Plans by Wayland & Cline, architects, 624 Idaho Bldg., Boise. GH 4-12. Previous report 1-16

FRATERNITY HOUSE REMODELING— Moscow, Idaho

Bids will be called soon by Kappa Sigma Fraternity, University of Idaho, Moscow, for remodeling the interior of the fraternity house at the university. Plans by Walker, McGough & Trogdon, architects, W. 1023 Riverside, Spokane. Work will include moving partitions; plastering; acoustical tile installation; painting; floor covering; new doors and millwork; commercial type kitchen; two new ceramic tile bathrooms with metal partitions; some electrical wiring and fixtures; minor changes in heating system and other mechanical work. Wardrobe cabinets will be let as separate contract at a later date. LL 4-5. Previous report 7-30

SCHOOL— Moscow, Idaho

Bond issue of $540,000 was approved in the April 8 election held by Moscow School District No. 281, 205 N. Monroe, Moscow, to finance construction of a two-story masonry junior high school in the northwest part of Moscow. Bids will be called in late May or early June with construction scheduled to start this summer. Plans by George M. Rasque & Sons, architects, Washington Trust Bldg., Spokane. DR 4-15. Previous report 3-29

▲BOWLING ALLEY— Moscow, Idaho

Seven bids are under consideration by Bowlerama, Inc., Robert Mortensen, president, 313 N. Grant, Moscow, for construction of a 12-lane bowling alley on the Pullman Road in Moscow. Completion is scheduled for August 15 on the $230,000 (estimate) structure. MH 4-16

HIGH SCHOOL ADDITION— Mountain Home, Idaho

Working drawings will be completed soon by Dropping, Kelly & Finch, architects, 2504 Kootenai, Boise, for an eight-classroom addition to the high school at Mountain Home, for Mountain Home School District No. 6, Leroy Hughes, superintendent, Mountain Home. GH 4-5. Previous report 2-18

■ELEMENTARY SCHOOL— Mullan, Idaho

Planholders announced for construction of two-story, 12-classroom, wood frame with masonry veneer Mullan Elementary School at Mullan. Bids will be opened 7 p.m, April 22, Shoshone County School District No. 392, Mullan, Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane.

Planholders: Johnson-Busboom-Rauh, N. 601 Cedar; Purvis Construction Co., Box 64, Yardley, Wash.; Walter M. Varnum, Box 983, Coeur d'Alene; R. C. Worst, 625 Best Ave., Coeur d'Alene; Ruud Construction Co., Realty Bldg.; Gus J. Bouten, N. 627 Napa; McKim & Kiser, Box 05, Osburn; Hefte Construction Co., 11607 E. Trent. Of Spokane unless noted. SC 4-15. Previous report 4-2

BANK— Orofino, Idaho

Plans announced by Idaho First National Bank, John A. Schoonover, president, 205 N. 10th, Boise, for construction of a new branch bank on a 96'x122' lot located at the corner of Michigan Ave. and A St. in Orofino. Two dwellings now located at the site will be moved, with this work starting May 1. Completion of the new bank is expected by next October. DR 4-10

HIGHWAY DISTRICT OFFICE— Pocatello, Idaho

(Estimated cost $150,000)

Working drawings will be completed soon by Hunter, Brower & Associates, architects, Dietrich Bldg., Pocatello, for a new 7,500 sq. ft. highway district office building on U.S. Highway 91-191-30, across from the Sunset Drive-In Theater, south of Pocatello, according to C. E. Aldrich, Department of Highways, district engineer, Oak and Yellowstone, Pocatello. GH 4-5

★EMPLOYMENT BUILDING— Pocatello, Idaho

Award to Brennan Construction Co., Box 507, Pocatello, $78,795, by Arthur Warren, commissioner, Department of Public Works, 432 Capitol Bldg., Boise, for construction of a one-story with basement, 40'x90', brick veneer Employment Security Agency building at the corner of W. Center and Hayes St. in Pocatello. Plans by Hunter, Brower & Associates, architects, Dietrich Bldg., Pocatello. Seven bids received for the April 10 opening. HI BID: D. E. Jensen Construction Co., 3225 Crescent Rim Drive, Boise, $91,164 (basic). SP 4-15. Previous report 4-1

●GRADE SCHOOL, SCHOOL ADDITIONS— Salmon, Idaho

Bids will be opened 8 p.m., M.S.T., May 6, by Lemhi County Class A School District No. 291, Earl Williams, superintendent, in the High School Bldg. at Salmon, for construction of a 12-classroom elementary school, a two-room addition to Cobalt school building, a music and manual arts building for junior high and elementary school students, and conversion of existing music room into shower and locker room at the high school in Salmon. Plans with Charles W. Johnston, architect, 13 N. 8th St., Payette. $50 (general) and $25 (mechanical, electrical) deposits.

New school and addition to be one-story; reinforced concrete footings and foundation; concrete block walls; concrete floors; timber supporting structures; glued laminated beams; frame partitions; steel sash; drywall partions; asphalt tile flooring; acoustical ceilings, wood deck; folding doors, corrugated plastic panels, blackboards; steam heating system, sawdust fuel; mechanical ventilating system. SP 4-16. Previous report 4-9

HOSPITAL— St. Anthony, Idaho

(Estimated cost $200,000)

Construction will start by July 1 on a one-story 16-bed general hospital building to be located between Main and N streets in the western section of St. Anthony, for St. Anthony Hospital Board, c/o City Council, Mayor Clyde Keever, City Hall, St. Anthony. Working drawings are underway by C. A. Sundberg & Associates, architects, 11 E. 16th, Idaho Falls. GH 4-8. Previous report 8-17

MONTANA

ELEMENTARY SCHOOL—Anaconda, Mont.

(Estimated cost $400,000)

Plans will be complete in June by Fox, Ballas & Barrow, architects, Savings Center Bldg., Missoula, for a one-story and partial basement, 26,000 sq. ft., 12-classroom elementary school with multipurpose room and equipped cafeteria in Anaconda. Bids will be taken by Anaconda School District, 219 E. 3rd Ave., Anaconda.

Concrete footings and foundation; concrete floors; timber supporting structures; glued laminated roof; concrete stairway; aluminum sash; brick exterior, plaster interior wall finish; some exposed masonry partitions; asphalt tile flooring; acoustical ceilings; rigid insulation in roof; fluorescent lighting; gas fuel. SP 4-10

YWCA BUILDING ADDITION— Billings, Mont.

Preliminary plans are subject to major revisions pending financial campaign in June by Young Women's Christian Association, 907 Wyoming Ave., Billings, for a one-story and no basement, concrete block addition to the YWCA building. Architects: Nordquist & Sundell, 1233 N. 27th St., Billings.

Continuous concrete footings, foundations; frame floors; timber supporting structures; flat roof; frame partitions; wood and aluminum sash; rigid insulation in roof; low pressure steam heating system, natural gas fuel; acoustical tile ceilings; no further specifications determined.

SP 4-8. Previous report 2-12

●RADIO-TELEVISION OFFICE BUILDING— Billings, Mont.

(Estimated cost $500,000)

Correction: Bid opening date is 12 noon, April 28, rather than May 28 as stated in previous reports, for construction of the four stories above basement of a 37,000 sq. ft. office building at 3rd Ave. N. and 32nd St. in Billings, to house facilities of KOOK Radio and Television Station. Bids will be received from a select list of bidders in the office of Nickum, Lamont & Fey, architects and engineers, 71 Columbia St., Seattle.

Additional planholdes: Wells Brothers, 704 Dunham Ave., Billings; Hardy Construction Co., 420 N. 25th St., Billings; St. Paul Structural Steel, St. Paul, Minn.

PD 4-16. Preivous report 4-5

★ELEMENTARY SCHOOL, GYM— Butte, Mont.

Awards announced by School District No. 1, 111 N. Montana Ave., Butte, on construction of Big Butte Elementary School building and gymnasium. GENERAL: Cahill-Mooney Construction Co., 1220 E. Front, $277,300. MECHANICAL: Murphy Plumbing and Heating, 121 W. Broadway, $75,310. ELECTRICAL: LeSage's, Inc., 204 W. Park, $37,675. PAINTING: Lester Brown, 1874 Harrison, $4,265. Of Butte.

DM 4-15. Previous report 4-11

HIGH SCHOOL— Columbia Falls, Mont.

A special 8.5-mill levy was approved in the April 5 election by voters in Flathead School District No. 6, Columbia Falls, to raise $78,000 for completion of the $1,500,000 high school under construction at Columbia Falls. RB 4-12. Previous report 10-9

CHURCH, RECTORY—Columbia Falls, Mont.

Fund campaign is underway by St. Richard's Catholic Parish, Rev. William C. Molloy, pastor, Columbia Falls, to raise $50,000 for construction of a new church and rectory on an 8-acre tract in the Kennedy Addition, south of State Route 40 near 11th St., on the western edge of Columbia Falls. General chairman of the drive is Dr. A. M. Opisso. RB 4-5

RESIDENCES— Columbia Falls, Mont.

(Estimated cost $39,000)

Construction will start soon by Vincent A. Hoerner of Columbia Falls on three $13,000 residences in Columbia Falls. Two three-bedroom and one two-bedroom homes are planned. RB 4-8

★RECTORY— Dillon, Mont.

Awards to D. P. Ibey, Dillon, $38,000 (general), Anderson Plumbing and Heating, Dillon, $10,616 (mechanical) and Electric and Variety Store, Dillon, $3,200 (electrical), by Rev. Father Bernard Sullivan, St. Rose of Lima Parish, 216 S. Atlantic St., Dillon, for construction of a one-story and basement rectory for the parish. Plans by Norman J. Hamill & Associates, architects, 122 W. Granite St., Butte. Bids opened April 8.

SP 4-15. Previous report 3-27

CAPEHART HOUSING, HAWAII

(Barber's Point)

Three low basic bids have been announced by A. K. Perry, Construction Officer, on construction of 1140 Capehart housing units at Barber's Point, Pearl Harbor, Oahu, NBy (CH)12501, on which proposals were opened recently by 14th Naval District, District Public Works Office, Administration Bldg., Pearl Harbor Naval Shipyard., Pearl Harbor, Oahu, T.H. LOW BIDS: Murray Sanders & Associates, 2116 S. Main, Santa Ana, Calif., $15,919,000; Del E. Webb Construction Co., Box 4066, Phoenix, Ariz., $16,744,000; The Len Co., Box 17, Honolulu, Hawaii, $17,100,777.

DM 4-11. Previous report 3-6

ELEMENTARY SCHOOL— Edgar, Mont.

Bond issue for $62,000 was approved in the April 5 election held by Edgar School District, Carbon County, Edgar, to finance construction of a four-classroom elementary school. EE 4-12

▲HEADQUARTERS, THEATER BUILDING— Glasgow AFB, Mont.

Bids received by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of squadron headquarters buildings and theater at Glasgow AFB; ENG-45-164-58-39.

Six bids received for the April 15 opening. LOW BIDS—SCHED. A: McCormack Construction Co., S.E. 3rd and Goodwin streets, Pendleton, Ore., $128,479. SCHED. B: Nelse Mortensen & Co., Inc., 1021 Westlake N., Seattle, $282,944. SCHED. C: Morgen & Oswood, Box 225, Glasgow, $405,006. Government estimate, $123,734, $262,216, $380,585. SP 4-16. Previous report 3-28

★BUILDING, ACCESS ROAD— Glendive, Mont.

Award to Lindbrook Construction Co., 11738 35th N.E., Seattle, $54,850, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of Gap Filler Facility including 1,400 sq. ft. concrete masonry communications base building, tower foundations and one mi. access road at Glendive Air Force Station; ENG-45-108-58-62. SP 4-11. Previous report 4-5

●FUEL STORAGE FACILITIES— Great Falls, Mont.

Bids will be opened 2 p.m., May 14, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for additional fuel storage facilities at Gore Field, Great Falls; ENG-45-164-58-54. Plans with above office.

Work consists of adding two 25,000-gal. underground fuel storage tanks, two fueling pumps, truck fill stand, structural steel and corrugated asbestos addition to existing shelter, and accessories to an existing underground fuel storage system; and alteration and modification of existing fueling system, fencing, site. SP 4-12

COUNTY HOSPITAL— Hardin, Mont.

(Estimated cost $280,000)

Bids will be opened on or about May 9 by Big Horn County Commissioners, Courthouse, Hardin, for construction of the one-story, 12,255 sq. ft. (alt. for additional 614 sq. ft.), frame, Big Horn County Community Hospital on Miles Ave. between Division and 1st St. in Hardin. Plans now available from office of Nordquist & Sundell, architects, 1233 N. 27th, Billings. $25 deposit.

EE 4-9. Previous report 3-21

★RESIDENCE— Havre, Mont.

Awards to E. J. Donohue Construction Co., 823 13th, Havre, $26,131 (general), J. A. McCauley Plumbing and Heating, 453 W. 1st, Havre, $2,922 (mechanical), and Hi-Line Electric, 524 1st, Havre, $760 (electrical), by owner Edward Ober of Havre, for construction of a one-story and partial basement, 76'x30', frame with brick veneer residence at Havre. Plans by Knight & van Teylingen, architects, Masonic Temple Bldg., Havre. SP 4-11. Previous report 3-29

●OPERATIONS BUILDING ADDITION... Havre AFB, Mont.

Bids will be opened 2 p.m., April 22, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 2,080 sq. ft. manual addition to the Operations Bldg. at Havre Air Force Station; ENG-45-108-58-103. Specifications with above office.

Addition to have reinforced concrete foundations, floors, frame and roof, and [illegible] concrete masonry unit curtain walls. Interior work to include installation of air conditioning and heating equipment and electrical work. Exterior work to include grading, removal of existing and construction of overhead steam distribution line, construction of a water line, and double bituminous surfacing for parking area and driveway. SP 4-15

STORE, OFFICE BUILDING— Kalispell, Mont.

(Estimated cost $100,000)

Plans have been prepared by Taylor, Thomas, Schwartz & Kirkpatrick, architects, Power Block, Kalispell, for a retail store and office building to be erected on northwest corner of Montana and 1st Ave. W.N. for Equity Supply, a cooperative at 96 1st Ave. W.N. The manager, Stanley N. Halvorson, said construction will start in May and be completed January, 1959. Plans call for warehouse docks set at truck-bed height, a second story for offices; pumice block for main walls, brick veneer facing. DC 4-15

●MULTIPURPOSE ROOM ADDITION— Laurel, Mont.

Bids will be opened 8 p.m., May 22, by School District No. 7, Laurel, for construction of a one-story, masonry, L-shaped addition with 70'x114' multipurpose and 96'x54' classroom wings for the West Elementary School at Laurel. Plans with Cushing, Terrell & Associated Architects, 1223 Airport Road, Billings. $25 deposit.

Face brick exterior; plaster interior, some exposed brick; wood joist floor with linoleum flooring, hardwood in multipurpose room; flat roof with wood reck; aluminum and wood doors, slim-line lighting, steam heat from boilers in existing building.

EE 4-16. Previous report 4-12

AIR FORCE BUILDING ADDITION— Lewistown, Mont.

Bid opening tentatively scheduled for April 8 has been postponed and project cancelled by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of an operations building addition (manual), 1,911 sq. ft. in area, at Lewistown Air Force Station; ENG-45-108-58-88.

SC 4-11. Previous report 1-1

ELEMENTARY SCHOOLS—Missoula, Mont.

Bond issue for $993,000 failed to pass in the April 5 election held by School District No. 1, Missoula, to finance construction of two elementary schools and remodeling and improving home economics and manual training facilities at another school in Missoula. EE, LS 4-12. Previous report 3-5

●RESIDENCES— Missoula, Mont.

Bids will be opened 2 p.m., M.S.T., May 12, by U.S. Forest Service, 1036 Federal Bldg., Missoula, for construction of a 3-bedroom wood frame residence, with or without garage, at each of the following locations: Seeley Lake Ranger Station, Lolo National Forest; West Yellowstone Ranger Station, Gallatin National Forest, and Harlowton Ranger Station, Harlowton, Lewis and Clark National Forest; Bid 5038-58. Plans with above office and with the Forest Service architect in room 3029 of the Federal Bldg.

SP 4-15

▲CHURCH— Roundup, Mont.

Eight general, six mechanical and five electrical bids received by St. Benedict's Catholic Church, Rev. Patrick Moran, pastor, Roundup, for construction of a new $1[illegible] brick church building and rectory at Roundup. Plans by Loners & Stroebe, architects, 511 N. 31st St., Billings. Bids opened April 11. GENERAL—TWO LOW: Cerovski Cement Products, 415 E. Boulevard, Lewistown, $117,797; E. L. Sheetz, Billings, $118,835. El

BID: L. P. Barney Construction Co., 2042 Clark Ave., Billings $139,750. MECHANICAL—TWO LOW: Gecho Plumbing and Heating, Roundup, $23,596; Carl's Sheet Metal and Plumbing, Forsyth, $25,623. HI: Midland Plumbing and Heating, 425 N. 19th St., Billings, $29,884. ELECTRICAL—TWO LOW: Sid's Electric Shop, Roundup, $8,426; Empire Electric, 3412 4th Ave. N., Billings, $8,704. HI: Scheid Electric, Lewistown, $9,738.
EE 4-16. Prelvous report 4-1

CHURCH— **Saco, Mont.**
(Estimated cost $52,000)
Construction has started by Gaylord Lafond, Malta, on a 150-capacity, 30'x80'; frame and brick, Catholic church and rectory in Saco. Plumbing contractor is Hansen & Just, Malta; electrical is Frank Wright, Malta; painting, J. R. Piper, Malta; heating, Montana Dakota Utilities, Malta.
DC 4-12

SCHOOL CONSTRUCTION— **Townsend, Mont.**
Bond issue for $346,000 was defeated in the April 5 election held by School District No. 7 and Broadwater County High School District, Townsend, to finance construction of six junior high school classrooms and a gymnasium for the high school.
EE, LS 4-12. Previous report 3-22

ALASKA

THEATER BUILDING— Anchorage, Alaska
(Estimated cost $125,000)
A three-stage construction program has been suggested by Frank Brink, Theater Workshop Director, Community College, 1700 W. Hillcrest Drive, Anchorage, for the proposed new Little Theater Building for the college. Plans were recently presented by Frank Brink to Anchorage Independent School District, Administration Office, 1602 W. Hillcrest Drive, Spenard, for a building to seat between 200 and 250 persons. The recommended three-stage construction program would include a $70,000 shell with three playing areas as the first unit; addition of vestibules, dressing rooms and interior finishing as second phase, costing $25,000; and storage space, offices and rehearsal rooms as final stage. No site has yet been selected.
AL 4-8

■ **JUNIOR HIGH SCHOOL—** **Anchorage, Alaska**
(Estimated cost $2,700,000)
Planholders announced for construction of two-story, 52,000 sq. ft., concrete block Orah Dee Clark Junior High School at Bragaw St. and Palmer Highway in Anchorage. Bids will be opened 8 p.m., April 30, in the office of Charles Davis, superintendent, Anchorage Independent School District, 1602 Hillcrest Drive, Spenard. Plans with Edwin B. Crittenden & Associates, architects, Box 358, Anchorage.
Planholders: C. R. Lewis Co., Box 2095; J. B. Warrack Co., Box 2080, and 400 2nd Ave. W., Seattle; William Burk, Box 1618; Patti-MacDonald Construction Co., Box 1634; Mac Mortensen, Stewart Hotel, Seattle; Swalling Construction Co., Box 1093; M-B Contracting Co., Lloyd Bldg., Seattle. Of Anchorage unless noted.
AL 4-16. Previous report 4-2

★ **EPISCOPAL CHURCH—Anchorage, Alaska**
Award to Dunderi Construction Co., 2703 5th, Anchorage, $63,919, by St. Mary's Episcopal Church, Rev. Jerauld, pastor, Anchorage, for construction of a new church over an existing concrete block basement now serving as temporary church quarters at the corner of Lake Otis and Tudor roads in Anchorage. Plans by Edwin B. Crittenden & Associates, architects, Box 358, Anchorage. Four bids received for the April 8 opening. 2ND LOW: Ken Brady Construction Co., 1402 Nelchina, Anchorage, $66,933. HI BID: Schoenwald Construction Co., Box 3115, Star Route B, Spenard $79,948.
AL 4-15. Previous report 3-26

■ **ABBOT LOOP, SAND LAKE SCHOOLS—** **Anchorage, Alaska**
Planholders announced for construction of two eight-classroom schools, one in the Sand Lake area and one in the Abbot Loop area of Anchorage. Bids will be opened 8 p.m., April 22, by Anchorage Independent School District, Don Fridley, assistant superintendent, 1602 Hillcrest Drive, Spenard. Plans with Edwin B. Crittenden & Associates, architects, Box 358, Anchorage.
Planholders: J. B. Warrack Co., Box 2080; Ohls Construction, Box 2137; Cupples Construction Co., Box 344; C. R. Lewis Co., Box 2095; Schowenwald Construction Co., Box 3115, Star Route B, Spenard; Sandland Construction Co., Box 4193, Spenard; Ken Brady Construction Co., 1402 Nelchina; C & R Builders, 1619 8th Ave. N., Seattle; William Burk, Box 1618; Larry Fisher, 2700 McRae Road. All of Anchorage unless noted.
AL 4-16. Previous report 4-3

▲ **SCHOOL—** **Bettles, Alaska**
Two bids received by Housing and Home Finance Agency, Field Station, 1107 I St., Anchorage, for construction of a one-story and no basement, 1,500 sq. ft., poured concrete and wood frame, one-classroom school with living quarters at the Civil Aeronautics Administration station, seven mi. from Bettles, north of the Arctic Circle: Proj. AAA-56-C-FED-2H-8. Plans by Alaska Architectural and Engineering Co., 710 3rd Ave., Fairbanks. Bids opened April 11. BIDS: Fairbanks Builders, 1446 Turner St., Fairbanks, $98,140 (basic), $300 (ded. alt); Burgess Construction Co., Box 1410, Fairbanks, $103,165, $200.
AL 4-15. Previous report 4-3

▲ **BUILDING MODIFICATION—** **Elmendorf AFB, Alaska**
Three bids received April 10 by U.S. Air Force, Elmendorf AFB, for modification of Bldg. No. 42-500 at Elmendorf AFB; Inv. No. 58-112. BIDS: Sandland Construction Co., Box 4193, Spenard, $89,000; Western Construction Co., Box 2274, Anchorage, $93,400; Emmett Construction Co., Anchorage, $105,000.
AL 4-12. Previous report 4-5

★ **STORM DOORS—Elmendorf AFB, Alaska**
Award to Western Construction Co., Post Road, Anchorage, $8,978, by U.S. Air Force, Elmendorf AFB, for replacement of 72 doors and installation of 78 aluminum storm doors at quarters at the base; Inv. No. 58-114.
SP 4-11. Previous report 3-27

● **HANGAR PAINTING, DECORATING—** **Elmendorf AFB, Alaska**
Bids will be opened 10 a.m., May 1, in the procurement office, Bldg. T22-057, at Elmendorf AFB, for interior and exterior cleaning, painting and decorating of Hangar No. 7, Bldg. 77-140, Elmendorf AFB; IFB 65-501-58-126. Plans with above office.
AL 4-11

▲ **PAINTING, DECORATING—** **Elmendorf AFB, Alaska**
Three bids received by U.S. Air Force, Elmendorf AFB, for cleaning, painting and decorating 18 buildings at the base; Inv. No. 58-110. Bids opened April 8. BIDS: Warren Painting Co., 321 2nd Ave., Anchorage, $54,442; Northwest Painting Service, 1418 I St., Anchorage, $86,454; Clark's Painting Service, 720 Gambell, Anchorage, $128,000.
AL 4-11. Previous report 3-19

▲ **COMMAND BUILDING MODIFICATION—** **Elmendorf AFB, Alaska**
Four bids received by U.S. Air Force, Elmendorf AFB, for modification of Command Bldg. No. 5-800, room 5, at the base; Inv. No. 58-109. Bids opened April 8. TWO LOW: Western Construction Co., Box 2274, Anchorage, $31,900; Walsh & Co., Box 4080, Spenard, $32,652. HI BID: Modern Electric Co., Anchorage, $38,158.
AL 4-11. Previous report 4-5

▲ **OPERATIONS BUILDING, OUTSIDE UTILITIES— Elmendorf AFB, Alaska**
Six bids on Schedule A and five on Schedule B received April 9 by Corps of Engineers, Alaska district, D-E Bldg., Anchorage, for construction of a 25'x40' operations buildings and outside utilities; ENG-95-507-58-30. LOW BIDS—SCHED. A: Sandland Construction Co., Box 4193, Spenard, $46,287; M-B Contracting Co., Inc., Box 2059, Anchorage, $51,723; Alta Construction Co., Box 1541, Anchorage, $55,885. SCHED. B (includes Sched. A plus roads, grading and paving, pavement, curb, gutter): M-B Contracting Co., Inc., Anchorage, $56,178; Sandland Construction Co., Spenard, $56,500; Alta Construction Co., Anchorage, $63,885. Government estimate, $44,452, $48,125.
AL 4-11. Previous report 3-27

● **SERVICE CLUB—Elmendorf AFB, Alaska**
Bids will be opened 2 p.m., May 13, by Corps of Engineers, Alaska district, D-E Bldg., Anchorage, for construction of a 27,800 sq. ft. concrete and steel frame airmen's service club at Elmendorf AFB; ENG-95-507-58-43. Specifications with above office.
Building will have tilt-up concrete walls. Also included are utilities, roads and gradings, concrete sidewalks, curb and gutters.
SP 4-15

▲ **OFFICE QUARTERS BUILDING—** **Fort Yukon, Alaska**
The bid received April 15 was rejected as too high by Bureau of Land Management, Area Office, 226 Seward St., Juneau, for construction of a 2,400 sq. ft. office quarters at Fort Yukon. ONLY BID: Pitcher Construction Co., $66,779.
JU 4-16. Previous report 4-12

▲ **BARRACKS BUILDING—Glenallen, Alaska**
Bids were opened April 15 by Bureau of Land Management, Area Office, 226 Seward, Juneau, for construction of one-story, wood frame barracks for the fire crew at Glenallen. LOW BIDS: Curtis & Hoge, 1320 F St., Anchorage, $52,465; Walsh & Co., $58,937; Eyak, $64,424.
JU 4-16. Previous report 4-12

● **SCHOOLS— Kenai Peninsula, Alaska**
Bids will be opened 10 a.m., May 21, by Alaska Public Works, Box 1181, Juneau, for construction of the three-classroom frame Tustumena elementary school and the three-classroom frame Anchor Point elementary school on the Kenai Peninsula; Proj. Aaa 50-A-315. Specifications with above office. Alternates provided for extra classrooms and covered play areas.
SP 4-15

■ **HIGH SCHOOL ADDITION—** **Kenai, Alaska**
Planholders announced for construction of a one-story and no basement, 2,200 sq. ft., poured concrete and frame addition to the Territorial High School at Kenai on which bids will be opened 4 p.m., April 28, in the office of Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage. Plans with the architects.
Planholders: City Electric, Box 3698, Anchorage; J. B. Warrack Co., Box 2080, Anchorage; Kenai Plumbing and Heating Co., Box 217, Kenai; Glass Sash and Door Supply, Box 1933, Anchorage; Electrical Construction Co., Box 704, Palmer; Dalzell Construction Co., Box 3006, Fairview Branch, Anchorage.
Concrete footings and foundation; concrete slab floors; timber supporting structures; flat roof; frame partitions; wood sash; concrete and metal siding on exterior walls, birch plywood and gypsum board interior finish; drywall partitions; plastic tile flooring; acoustical ceilings; fiberglass insulation in walls, rigid in roof; fluorescent lighting; blackboards, cork boards, metal lockers; extension to existing powerplant, unit vents; exhaust ducts.
AL 4-16. Previous report 4-10

● **ARMORY— Kodiak, Alaska**
Bids to be opened 2 p.m., May 15, by Paul L. Gagnon, purchasing agent for Territory of Alaska, 525 Alaska Office Bldg. (Box 2420) Juneau, for construction of reinforced concrete and frame National Guard Armory at Kodiak; Bid No. 141. Plans with above office. $25 deposit. Certified check or bid 10%. Completion time 270 days.
DC 4-15

★ **ELECTRICAL REHABILITATION—** **Ladd AFB, Alaska**
Award to W. R. Grasle Co., 437 N.W. 16th Ave., Portland, Ore., $121,450, by U.S. Air Force, Ladd AFB, for electrical rehabilitation of hangar No. 2, Bldg. 3008, at the base; Inv. No. 58-63. Bids opened March 26.
SP 4-15. Previous report 3-14

★**VISITOR CENTER, APARTMENTS—** **McKinley Park, Alaska**

Award to J. B. Warrack & Co., Box 2080, Anchorage, $400,974, by National Park Service, Mount McKinley National Park, for construction of a one-story and partial basement visitor center building with sewage disposal system and about 1,500' water line, and a two-story and basement apartment building with six apartments, and a one-story six-stall garage at park headquarters, McKinley Park; Proj. No. McK-W 158.

SP 4-16. Previous report 3-15

▲**TELEPHONE BUILDING— Seward, Alaska**

Two bids received April 11 at the Alaska Chapter, Associated General Contractors of America, 306 Central Bldg., Anchorage, for construction of an equipment and office building at Seward, for The Alaska Telephone Corp. BIDS: Bartlett Builders, Box 1097, Seward, $23,315; Ken Brady Construction Co., 1402 Nelchina, Anchorage, $43,833.

AL 4-15. Prelvous report 4-2

▲**DORMITORY— St. Paul Island, Alaska**

Seven bids received by U.S. Fish and Wildlife Service, Bureau of Commercial Fisheries, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for construction of a two-story with one-story mess hall, wood frame Alaska dormitory for use at St. Paul Island, Pribilof Islands, Alaska. Bids opened April 15. TWO LOW: Teller Construction Co., 843 N. Graham, Portland, $188,954; Hiebert Construction Co., Sitka, $194,036. HI BID: Sandland Construction Co., Spenard, $268,815.

WB 4-16. Previous report 4-1

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★**SEWER— Astoria, Ore.**

Award to Grimstad & Vanderveldt, 1497 9th, Astoria, $8,383, by City Council, City Hall, Astoria, for construction of a sewer in the vicinity of 9th and Clatsop streets in Astoria. Four bids received for the April 4 opening. 2ND LOW: George F. Anderson, Astoria, $12,169. HI BID: Paul Ferneding, 2111 E. 27th, Vancouver, $13,137.

SP 4-11. Previous report 4-1

SP 4-11. Previous report 3-18

★**PARKING LOT, STREET REPAIRS— Astoria, Ore.**

Award to Palmberg Construction Co., Pier 3, Astoria, $20,212, by 13th Naval District, Bldg. 250, U. S. Naval Station, Seattle, for surfacing parking lots and repairs to streets at U. S. Naval Station, Tongue Point, Astoria, Ore.; Spec. No. 12344/58.

SP 4-15. Previous report 4-11

▲**HEATING PLANT CONTROLS— Astoria, Ore.**

Bids received by 13th Naval District, U.S. Naval Station, Seattle, for provision of combustion controls for three existing boilers, modifying existing controls on three boilers, provision of continuous blow-down piping and control for all six boilers, providing low feed water and oil pressure alarm devices and provision of smoke density indicating equipment for three boilers at the central heating plant, U.S. Naval Station, Tongue Point, Astoria; Spec. No. 12349/58.

Four bids received for April 15 opening. LOW BID: Industrial Mechanical Contractors, 10340 Bothell Way, Seattle, $18,948. HI BID: A. J. Zinda Co., 2349 N.W. 22nd Ave., Portland, $23,600.

SP 4-16. Previous report 3-20

▲**REINFORCED CONCRETE BRIDGE— Blue River, Ore.**

Twelve firms submitted bids April 10 to Corps of Engineers, 628 Pittock Block, Portland, for construction of reinforced concrete bridge at upper crossing on the West Side Road at Cougar Reservoir on South Fork McKenzie River, Lane County, Ore.; CIV-ENG-35-026-58-142. LOW: Schrader Construction Co., 3030 S.E. Hawthorne, Portland, $105,706; J. A. Troxell, 4006 E. 38th, Seattle, $115,455. HI: Green Construction Co., Securities Bldg., Seattle, $192,229. Government estimate $128,699.

WB 4-11. Previous report 3-18

★**FIELD LIGHTING— Brownsville, Ore.**

Award to Lebanon Electric Co., 66 E. Sherman St., Lebanon, $15,541, by School District No. 552-C, Linn County, at office of L. Emmett H. McKay, Brownsville High School, Brownsville, for construction of athletic field lighting system for the new Central Linn High School, located about 1½ mi. east of Halsey. Six bids were received April 7. 2ND LOW BID: Witzig Electric Co., 223 S. 4th, Corvallis, $17,260. HI BID: Sierra Electric, 6015 N.E. Mallory St., Portland, $20,500.

WB 4-11. Previous report 3-19

★**STORAGE DAM (First Stage—Tunnels)— Bull Run, Ore.**

Award to Green Construction Co., 928 Securities Bldg., Seattle, $3,345,000, by city purchasing agent, L. W. Rayner, 208 City Hall, Portland, for construction of Bull Run Dam No. 2 tunnels, intakes and outlet structures, near Bull Run Dam No. 1, on Bull Run River, Bull Run Water Reserve, on lower northwest slopes of Mt. Hood, Multnomah County, Ore.

WB 4-11. Previous report 3-29

★**WATER WELL— Burns AFS, Ore.**

Award to R. J. Strasser Drilling Co., 8110 S.E. Sunset Lane, Portland, $32,672, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for water well No. 2 at Burns AFS; ENG-45-108-58-108.

SP 4-15. Previous report 4-9

PILING, DOLPHIN— Coquille, Ore.

The Coquille Valley Boat Club, Box 606, Coquille, has applied to the Corps of Engineers, Portland district, 628 Pittock Block, Portland, for a permit to drive piling and a 3-pile dolphin in the Coquille River at Coquille. Site of the proposed work is on the south side and upstream from the U.S. Highway 101 bridge crossing the river.

A sheer boom with four single piles and one 3-pile dolphin will be attached to the upstream end of the swing span pier and continue upstream for 230', thence shoreward on a 60-degree angle to a piling 30' landward of the mean lower low water line. The upstream end of the sheer boom will be 40' channelward from the mean lower low water line. Piling will be driven landward of the sheer boom for a floating dock, which will consist of two rows of four single piles about 40' apart and about 40' and 5' channelward of the mean lower low water line respectively. One single pile will be driven 20' upstream from the outer row and two piles will be driven 10' and 20' respectively upstream from the inner row. A floating walk will be provided at the upstream end of the dock and will consist of two single piling being driven 10' apart and 20' landward of the mean lower low water line.

Colonel Jackson Graham, Portland district engineer, will receive letters in his office until April 24 concerning effect of the work on navigation.

SP 4-11

●**ZINC CREEK BRIDGE— Douglas County, Ore.**

Bids will be opened 2 p.m., P.S.T., May 1, by U.S. Forest Service, H. P. Campbell, assistant regional supply officer, 729 N.E. Oregon St., (Box 4137), Portland, for construction of 180' long, single lane reinforced concrete Zinc Creek Bridge, with 1,500' of road approaches, across South Umpqua River, Douglas County, Umpqua National Forest, Ore.; Bid No. 308. Plans with supply officer or with Supervisor, Umpqua National Forest, Post Office Bldg., Roseburg.

Quantities: 293 c.y. concrete, 55,500 lbs. reinforcement steel; 362.5' beam type railing. The bridge site may be reached by leaving State Highway 227 at Tiller, Ore., northeast up South Umpqua Road No. 28 about 12 mi. to site, which is downstream from existing log stringer bridge. Just off South Umpqua Road.

WB 4-16

★**PAVING— Empire, Ore.**

Awards announced by City Council, City Hall, Empire, for asphaltic concrete paving in District No. 11, Empire. Two bids were received April 8 for the paving work and four bids for all work except paving. AWARDS—PAVING: Porter W. Yett, 6[illegible] N.E. Ainsworth, Portland, $12,624. OTHER WORK: Bob Angell, Eastside, $26,200.

SP 4-12. Previous report 3-[illegible]

▲**SEWERAGE PROJECT— Fairview, Ore.**

Seven complete and three partial bids received by city recorder, Betty J. Shaw, Fairview, Ore., for construction of trunk sewers and lift station (Unit 1), and lateral sewers (Unit 2) in Fairview. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. Bids opened April 8. TWO LOW BIDS: Tracy Colt, [illegible] S.E. Steele St., $113,887; Rushlight Automatic Sprinkler Co., 55 N.E. Farragut St., $118,[illegible] HI BID: P. S. Lord Mechanical Contractor, 4507 S.E. Milwaukie Ave., $185,153. All of Portland.

WB 4-11. Previous report 4-[illegible]

●**LAUNCHWAY REPAIR—Hammond, Ore.**

Bids will be opened 2 p.m., April 28, by 13th Coast Guard District, room 922, [illegible] 2nd Ave., Seattle, for repairing marine launchway at Point Adams Lifeboat Station, Hammond; Bid No. FS-1739. Plans with above office.

SP 4-11

●**RESERVOIR SITE CLEARING— Maupin, Ore.**

Bids will be opened 2 p.m., May 8, in the office of the Bureau of Reclamation, Madras Airport, Madras, for clearing Wasco reservoir site on Clear Creek about 35 mi. west of Maupin, Wasco County, Juniper Division, Wapinitia Project, Ore.; Spec. No. 100C-20. Specifications with above office.

SP 4-11

PAVING— Medford, Ore.

(Estimated cost $328,000)

Bids will be called in May or June by City Council for about 20,650' of class B asphaltic concrete paving on city streets. Plans by city engineer, Vernon Thorpe, City Hall, Medford. Quantities: 33,000 c.y. excavation; 79,280 sq. yd. asphaltic concrete; 40,000' concrete curbs.

DM 4-11

●**STREET IMPROVEMENTS— Milton-Freewater, Ore.**

Bids to be opened 2 p.m., April 24, by City Council, City Hall, Milton-Freewater, for approximately ¾ mi. surfacing in six street improvement districts. Specifications with city engineer, City Hall. Quantities: 5,530 c.y. excavation; 3,400 c.y. crushed rock base; 1,650 ton asphalt; 5,530' curbs.

DC 4-11

●**WATER FILTRATION PLANT— Myrtle Point, Ore.**

Bids to be received until 7:45 p.m., May 1, and opened at 8 p.m. by City Council, City Hall, Myrtle Point, for construction of 1.25 MGD water filtration plant, clearing and grading site, construction of earth holding basin, miscellaneous work. Alternate bids will be taken on various items of equipment.

Plans with Patricia Parsons, city recorder, City Hall, Myrtle Point, and with R. H. Erickson, consulting engineer, 409 N. 4th Court, Coos Bay. $35 deposit. Certified check or bid bond 5%. DC 4-12

★STATE HIGHWAY PROJECTS— Portland, Ore.

Awards announced by Oregon State Highway Commission, Salem, for two highway projects on which bids opened February 27 in Portland.

GRADING, PAVING, Minam-Rock Creek Section—Grading, asphaltic concrete paving 1.8 mi. and furnishing material in stockpile, Wallowa Lake Highway, Wallowa County, about five mi. west of Wallowa; FAP No. F-40(7).

AWARD: McNutt & Sons, 432 W. 11th Ave., Eugene, $522,902.

PAVING, Dans Point-Plywood Plant Section—Asphaltic concrete paving and stone shoulders on 3.5 mi. on Gold Beach-Bagnell Ferry Road about one mi. east of Gold Beach, Curry County; FAP No. S-366(1).

AWARD: J. C. Compton Co., Box 86, McMinnville, $71,715.

SP 4-12. Previous report 3-1

★STREET IMPROVEMENTS— Portland, Ore.

Award to Multnomah Road & Concrete Co., 1128 S.E. 122nd Ave., Portland, $14,146, by Multnomah County Commissioners, J. W. West, purchasing agent, 504 County Court House, Portland, for improvement of S.E. Mill St. WB 4-11. Previous report 3-22

●STREET IMPROVEMENTS—Portland, Ore.

Bids will be opened 10:30 a.m., April 22, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for two street improvement projects. Plans with roadmaster's office, 2115 S.E. Morrison St., Portland, $2 charge. Certified check or bid bond 10%. PROJECT D-283—Grading and surfacing with asphaltic concrete on N.E. 82nd Ave. from N.E. Prescott St. to Sandy Blvd. PROJECT D-282—Grade roadway and sidewalk area, construct rock base, concrete curbs, and surface with asphaltic concrete on S.E. Alder St. from 130th Ave. east approximately 662'; S.E. Washington St. from 130th same distance; S.E. 131st Place from S.E. Washington St. south approximately 275'. WB 4-11

★STATE HIGHWAY PROJECT— Portland, Ore.

Award to Oregon Asphaltic Paving Co., 9441 S.W. Porter St., Portland, $87,348, by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened March 28 in Portland.

PAVING, Division Street-Powell Blvd. Section—Grading, paving 0.53 mi. on S.E. 122nd St. about 1.5 mi. east of Portland, Multnomah County, Ore.; FAP No. S-255(4).

SP 4-12. Previous report 4-1

●MOORAGE FACILITIES— Portland, Ore.

Bids will be opened 2 p.m., May 1, by Portland General Electric Co., Fred G. Hodge, purchasing agent, 410 Maegly-Tichner Bldg., Portland, for moorage facilities for oil tankers at Station L, located at the foot of S.E. Lincoln St. Work will include construction of five mooring dolphins, oil header dock and connecting walkways.

WB 4-12

●GATE VALVE— Portland, Ore.

Bids will be opened 2 p.m., April 21, by city purchasing agent, 208 City Hall, Portland, for one 30" motor-operated gate valve with 440-volt, three-phase electric motor. WB 4-12

▲STREET IMPROVEMENTS—Portland, Ore.

Bids received by city auditor, Will Gibson, City Hall, Portland, for two street improvement projects. S.E. 73RD AVE. (Five bids)—TWO LOW BIDS: Portland Road & Driveway Co., 7295 S.E. King Road, $15,066; Oregon Asphaltic Paving Co., 0441 S.W. Porter St., $15,195. HI BID: Logan, Taylor & Co., 7800 N.E. Killingsworth St., $15,519. N.E. HOLMAN ST. (Six bids)—TWO LOW BIDS: Logan, Taylor & Co., $9,264; Oregon Asphaltic Paving Co., $9,265. HI BID: K. F. Jacobsen & Co., Inc., 1107 N.E. Russell St., $10,437. All of Portland. Bids opened April 9. WB 4-11. Previous report 4-5

▲TRACK CONSTRUCTION— Portland, Ore.

Five bids received by Port of Portland, John J. Winn, Jr., general manager, 5845 N. Lagoon Ave., Swan Island, Portland, for 2,300' of lead track construction in the first section of the proposed new industrial area on Swan Island. Bids opened April 9. TWO LOW BIDS: B. H. Samuel & Sons, 5253 N.E. Sandy Blvd., $23,592; A. D. Ford & Son, 2535 N.W. Upshur St., $27,093. HI BID: General Construction Co., 4850 N.W. Front Ave., $33,679. All of Portland.

WB 4-11. Previous report 3-26

●SANDBLASTING, PAINTING PONTOONS— Portland, Ore.

Bids will be opened 11 a.m., April 25, by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland, (Box 4099), for sandblasting and painting the ordinarily immersed portion of 180 cylindrical dredge pipe line pontoons and two rectangular flat bottomed scow type pontoons. Certified check, cashier's check or bid bond 5%. Work may be done at Swan Island, or pontoons may be transported to another location. WB 4-16

★TRANSMISSION LINE (Scheds. 1 and 3)— Portland, Ore.

Award to Parker-Schram Co., 201 Builders Exchange Bldg., Portland, $175,720 (Schedule 1) and $251,993 (Schedule 3), by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Scheds. 1 and 3 of Santiam-Alvey section of the McNary-Alvey section of the McNary-Alvey 287 kv transmission line No. 1, Linn and Lane counties, Ore.; Inv. No. 8675.

WB 4-16. Previous report 4-3

▲STEEL PIPE— Portland, Ore.

Three complete and three incomplete bids received by city purchasing agent, 208 City Hall, Portland, for coated steel pipe and steel couplings up to 30". Bids opened April 11. COMPLETE BIDS: Consolidated Supply Co., 2300 N.W. 26th Ave., $114,773; Peerless Pacific Co., 2238 N. Interstate Ave., $115,602; Waterworks Supplies Co., 4455 S.E. 24th Ave., $118,304. All of Portland.

WB 4-16. Previous report 3-29

▲AIR COMPRESSOR— Portland, Ore.

Six bids received by city purchasing agent, 208 City Hall, Portland, for gasoline-powered, 63 cu. ft. per minute air compressor. LOW BIDS: Rogers Machinery Co., 5035 S.E. McLoughlin Blvd., Portland, $1,620; Interstate Tractor & Equipment Co., 2855 N.W. Front Ave., Portland, $1,800. Bids opened 10. WB 4-16. Previous report 3-29

●SEWAGE TREATMENT PLANT— Rainier, Ore.

(Estimated cost $114,047)

Bids are being taken on two separate schedules 1—sewage treatment plant and 2—interceptor sewers at the 8 p.m. P.S.T., May 12 bid opening being held by City Council, City Hall, Rainier. Specifications with city recorder, City Hall, Rainier, and with Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. $40 deposit. Certified check, cashier's check or bid bond 5%.

1—Sewage Treatment Plant—To provide primary treatment for 2,000 persons; circular 14' diameter pump station; block control building; 24' diameter clarifier; 24' digestion tank; grit removal basin.

2—Interceptor Sewers—3,500' of 8" and 12" concrete and asbestos cement sewer pipe; manholes; appurtenances.

DC 4-16. Previous report 4-15

★WIRING SYSTEM REPLACEMENT— Sixes, Ore.

Award to Noble Electric, Langlois, Ore., $819, by 13th Coast Guard District, Seattle, for replacing existing wiring system for the warning lights on the 300' antenna at Cape Blanco Loran Transmitting Station, Sixes; Inv. No. FS-1730. Bids opened April 4.

SP 4-11. Previous report 3-26

●BANK PROTECTION— Springfield, Ore.

Bid opening of April 18 extended to 2 p.m., May 1, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of bank protection works at Conley Place, Upstream Extension, along the left bank of McKenzie River, about two mi. north of Springfield, Lane County, Ore.; CIVENG-35-026-58-135.

SP 4-16. Previous report 4-10

PAVING, CURBING— The Dalles, Ore.

(Estimated cost $80,000)

Plans are underway by Vernon B. Tennenson, city engineer, 412 W. 2nd, The Dalles, for paving and curbing city streets. DM 4-12

DREDGING, PILING— Todelo, Ore.

L. F. Plank, 146 S. Alder, Toledo, has applied to the Corps of Engineers, Portland office, 628 Pittock Block, Portland, for permits to dredge in the Yaquina River and to dredge and drive piling in the same stream for a small craft moorage. Site of the work for the first permit is 200' upstream from the new bridge crossing Yaquina River at Toledo and continues upstream for about 1,900'. The second application calls for dredging and pile driving at the downstream end of the Toledo Airport landing strip on the east side of the Yaquina River at river mile 11.5. Thirty-four single piles with a wall of wooden sheeting will be driven around and inside the dredged area and seven single piles 25' apart will be driven in the center of the dredged area.

Colonel Jackson Graham, Portland district engineer, will receive letters in his office until May 1 concerning the effect of the work on navigation. SP 4-12

●WATER STORAGE FACILITIES— Umatilla, Ore.

Bids will be opened 2:30 p.m., May 8, by Corps of Engineers, Walla Walla office, Bldg. 802, County City Airport, Walla Walla, for construction of permanent water storage facilities, including concrete tank, pumphouse and water lines, at McNary Lock and Dam, near Umatilla; CIVENG-45-164-58-50. Plans with above office.

Work includes SCHED. A: Design and construct 400,000-gal. prestressed concrete tank, 60' inside diameter by 19' liquid depth. SCHED. B: Construction of reinforced concrete pumphouse; 2,100' of 6" to 12" cast iron water lines; modification of existing water system; and interior and exterior electrical work. Completion time for Sched. A is 180 calendar days; Sched. B, 210 days. SP 4-15

WASHINGTON

●SEWER SYSTEM— Aberdeen, Wash.

Bids will be received until 5 p.m. May 7 by city clerk, City Hall, Aberdeen and opened at 7:30 p.m. by City Council for construction of interceptor sewers in the city. Specifications with Stevens & Thompson, consulting engineers, 2234 S.W. 4th Ave. (Box 508) Portland, Ore. $75 deposit. Certified check, or bid bond 5%. Project to be bid as four separate contracts.

Contract 1—36,800 c.y. trench excavation, backfill; 4,770' of 48", 2,215' of 36", 2,953' of 24", 850' of 18", 340' of 15", 3,695' of 12" concrete pipe; 75 manholes.

Contract 2—24,000 c.y. trench excavation, backfill; 615' of 36", 4,630' of 24" 915' of 18", 2,325' of 15", 3,340' of 12", 5,560' of 10", 4,250' of 8" concrete pipe; 47 manholes.

Contract 3—29,750 c.y. trench excavation, backfill; 3,044' of 24", 2,193' of 18" concrete pipe; 3,870' of 16", 4,270' of 14", 3,910' of 12", 3,000' of 10" asbestos cement pipe; 60 manholes.

Contract 4—Placing two 14" cast iron pressure lines approximately 2,000' in length across the Chehalis River and two 8" cast iron lines about 300' in length across the Wishkah River.

Cost of the above interceptor sewer system is estimated at $1,500,000.

Contracts will be let at a later date on construction of pumping stations and treatment plant.

DC 4-15. Previous report 2-18

●WATER SUPPLY MAIN— **Anacortes, Wash.**

Bids will be 8 p.m., April 29, by City Council, City Hall, Anacortes, for installation of 11,100' of 36" steel pipe and concrete cylinder pipe water supply main and miscellaneous appurtenances. Plans and specifications with Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle. $25 deposit. Separate bids for each schedule, or one total for all schedules.

Quantities—SCHED. A: one 30", two 24", one 20" gate valve, each for 250 lb. water working pressure. SCHED. B: 3,800' of 36" concrete cylinder pipe. SCHED. C: 7,300' of 36" steel pipe.

PD 4-12. Previous report 4-1

WATER TANK— **Auburn, Wash.**

(Estimated cost $45,000)

Bids will be called about July by King County Water District No. 100, Route 3, Box 1506, Auburn, for construction of an 85' high steel or concrete water tank near 8th Ave. S. and S. 310th St. in Auburn. Specifications are being prepared by Philip M. Botch, civil engineer, 10 1st S.W., Auburn. SP 4-12

LANDSCAPING— **Bellevue, Wash.**

Preliminary plans have been completed by Wallace M. Ruff, landscape architect, 1873 Garden Ave., Eugene, Ore., for landscaping a seven-acre site at 5th Ave. N.E. and 120th Ave., Bellevue. This tract will eventually house three buildings for Bellevue School District No. 405, including a warehouse and maintenance building for winch bids will be opened April 30 (PCD 4-10), an administration building and a bus garage. PD 4-15

●SCREEN HOUSE ALTERATIONS— **Bellingham, Wash.**

Bids will be opened 10 a.m., April 21, by City Council, City Hall, Bellingham, for mechanical alterations and installation of operating equipment with the necessary pipe and connections at the screen house in Bellingham. Specifications with Alfred Loop, city comptroller, City Hall, Bellingham, and with John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland.

Work includes dismantling and replacing of parts and reassembling the screen, installation of equipment, providing a chlorine drum storage area. ET 4-15

★DRILLING— **Bellingham, Wash.**

Award to Copper Butte, Inc., Edmonds, $10,000, by Bellingham Water Board, City Hall, Bellingham, for drilling at Nooksack River diversion dam and tunnel located on Middle Fork of Nooksack River. ET 4-16

★METER HEAD CHANGE— **Bellingham, Wash.**

Award to Sparling Meter Co., 904 Elliott Ave., Seattle, by City Council, City Hall, Bellingham, for changing the existing 12" meter head on the pump line from recording to electrical transmission at the screening house, Whatcom Falls Park, Bellingham. Specifications by John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland, Ore. ET 4-16

▲HOISTS— **Bellingham, Wash.**

Bids received by City Comptroller, City Hall, Bellingham, for two 2-ton electrically operated hoists to be used for handling chlorine drum containers, have been forwarded for award recommendation to John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland, Ore. Bids were received until 5 p.m. on April 11. ET 4-16. Previous report 4-3

▲SUBSTATION ADDITIONS— **Benton County, Wash.**

Six bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Hedges 12 MVA substation, Benton County, about 3½ mi. southeast of Kennewick on Perkins Road, Wash.; Inv. No. 8705. TWO LOW BIDS: Cecil Schweighardt, Ephrata, $12,850; N. P. Nelson, 400 E. 29th, Vancouver, $13,753. HI BID: John M. King Co., 1601 Taylor Way, Tacoma, $15,875. Bids opened April 14.

WB 4-16. Previous report 3-28

BARGE GRAIN HANDLING FACILITIES— **Burbank, Wash.**

Plans announced by River Grain Terminal Inc., Russell C. Woolcock, president, Colfax, for construction of barge grain handling facilities with capacity of 800,000 bushels located at the confluence of the Snake and Columbia rivers near Burbank. Included will be a 300,000 bushel barge loading elevator contained in ten tanks; barge loading belt and tower capable of loading 1,000 ton barge in two hours; truck with unloading capacity of 80,000 bushels per day equipped with hydraulic truck dump and separate truck and rail pit; and bulk grain storage warehouse of 500,000 bushel capacity. It is hoped the facility will be in operation by late July. MH 4-16

SEWER SYSTEM, DISPOSAL PLANT— **Chewelah, Wash.**

Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle, have been retained by City Council, City Hall, Chewelah, to prepare a preliminary report, including cost estimates, on modernization of the sewer system including some type of sewage disposal plant for Chewelah. A bond election may be held to finance the project. It is hoped the preliminary report will be completed by May 7. MH 4-16

▲BREAKWATER, DREDGING— **Chinook, Wash.**

Seven bids received by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of a stone breakwater and dredging a small boat basin and channel on the Columbia River between Chinook and the Head of Sand Island; CIVENG-35-026-58-140. Bids opened April 15. TWO LOW BIDS: Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma, $151,170; General Construction Co., Box 3860, Portland, $171,280. HI BID: F. L. Somers, Box 668, Medford, Ore., $284,800. WB 4-16. Previous report 4-10

●CRUSHING ROAD MATERIALS— **Colfax, Wash.**

Bids to be opened 2 p.m., April 21, by Whitman County Commissioners, Courthouse, Colfax, for crushing surfacing materials at two sites. Plans with John J. McInerny, county engineer, Courthouse. DC 4-11

★GRADING (Units N818-A and B)— **Cowlitz County, Wash.**

Awards to Vernie Jarl, Box 507, Gresham, (Unit A) $200,198, and to Rex Ayers Construction Co., 7305 N.E. 29th Ave., Portland, and Silver Falls Truck & Construction Co., Silverton (joint venture), (Unit B), $184,694, by Bureau of Public Roads, 760 Morgan Bldg., Portland, Ore., for grading 3.817 mi. Washington FDRP Gifford Pinchot N818-A, and for 4.429 mi. grading Washington FDRP N818-B, both on Merrill Lake Road, Cowlitz County, Wash.

WB 4-12. Previous report 4-11

LIGHTNING PROTECTION— **Deep Creek AFS, Wash**

Bids will be opened on or about May 6 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for lightning protection for existing rail unloading crane, Ordnance Storage Area, Deep Creek Air Force Station; ENG-45-108-58-111. Plans with above office. SP 4-15

★ASPHALT SPREADER— **Everett, Wash.**

Award to Columbia Equipment Co., 5030 1st Ave. S., Seattle, $1,460, by Snohomish County Commissioners, Courthouse, Snohomish, for furnishing one two type 8' asphalt spreader for county road district No. 2. Bids opened March 24.

HH 4-11. Previous report 3-12

●GASOLINE DISPENSING SYSTEM— **Fort Lewis, Wash.**

Bids will be opened 1 p.m., April 23, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for modification and improvement of gasoline dispensing system, Gray Field, Fort Lewis; Inv. No. 58-159. Specifications with above office. SP 4-

●TRANSMISSION LINE RECONDUCTORING— **Fort Lewis, Wash.**

Bids will be opened 1:15 p.m., April 24, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for reconductoring pump-line-junction-army central 55-kv transmission line at Fort Lewis; Inv. No. 58-158. Specifications with above office. SP 4-

●SUMP PUMP REPLACEMENT— **Fort Lewis, Wash.**

Bids will be opened 1 p.m., April 24, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for replacement of syphon ejector type sump pumps with automatic electric motor driven type sump pumps and replacement of existing automatic electric motor driven type sump pumps in permanent type barracks in the 200, 300 and 400 blocks, Fort Lewis; Inv. No. 58-157. Specifications with above office. SP 4-

●PAINTING HYDRANTS— **Fort Lewis, Wash.**

Bids will be opened 1:15 p.m., April 21, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for repainting of fire hydrants at Fort Lewis; Inv. No. 58-160. SP 4-

●STREET LINE MARKING— **Fort Lewis, Wash.**

Bids will be opened 1 p.m., April 25, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for centerline marking of roads and streets at Fort Lewis; Inv. No. 58-166. SP 4-

●ASPHALTIC CONCRETE ROAD REPAIRS— **Fort Lewis, Wash.**

Bids will be opened 1:30 p.m., April 21, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for repair of asphaltic concrete roads and streets at Fort Lewis; Inv. No. 58-165. Specifications with above office.

Quantities: 140 c.y. unclassified excavation; 70 c.y. stabilized aggregate base; 2 ton prime coat; 170 ton asphaltic concrete; 2 ton tack coat; 192 ton asphaltic concrete. SP 4-

●WATER MAIN VALVES— **Fort Lewis, Wash.**

Bids will be opened 1:15 p.m., April 22, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for installation of additional water main valves at Fort Lewis; Inv. No. 58-171. SP 4-

▲RADIAL GATE, METALWORK— **Glade, Pasco, Wash.**

Fourteen bids on Item 1 and fourteen on Item 2 were received by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob cars at the shipping point or fob Glade, Wash., for carload shipments and Pasco, Wash., for less than carload shipments; one 32'x20' radial gate (Item 1) and one lot of embedded metalwork including anchor bolts (Item 2) for Esquatzel Diversion Canal, diversion structure head works, Columbia Basin Project, Wash.; DS-5027. Bids opened April 8. LOW BIDS—ITEM 1: Ogden Iron Works, 185 23rd, Ogden, Utah, $9,822, fob Ogden. ITEM 2: Truax Machine and Tool Co., 16 Michigan, Seattle, $1,601 fob destination. SP 4-15. Previous report 3-

●WATER MAINS, CHLORINATOR HOUSE— **Hadlock, Wash.**

Bids will be opened 2 p.m., April 28, by 13th Naval District, room 107B, Bldg. 291, U.S. Naval Station, Seattle, for replacement of 5,950' cement-asbestos water pipe, installation of automatic operated valve and underground wiring, and construction of one-story, 12'x12' concrete chlorinator house at the U.S. Naval Ammunition Depot, Bangor, Indian Island Annex, Hadlock; Spec. No. 12328/58. Specifications with above office. SP 4-

●IRRIGATION, DOMESTIC WATER SYSTEMS—Hemlock Ranger Sation, Wash.

Bids to be opened 2 p.m., P.S.T., April 30, by U.S. Forest Service, 720 N.E. Oregon (Box 4137), Ore., for installation of irrigation and domestic water systems including pumps and pumphouses at Hemlock Ranger Station, about 10 mi. north of Carson, Gifford Pinchot National Forest, Skamania, Wash.; Bid No. 218. Plans with Forest Supervisor, Gifford Pinchot National Forest, 801 W. 8th, Vancouver. DM 4-12

●HATCHERY— Kalama, Wash.

Bids to be opened 2 p.m., P.S.T., May 6, by State Department of Fisheries, 417-H General Administration Bldg., Olympia for construction of the Kalama No. 2 Salmon Hatchery on the Kalama River about six mi. north of Kalama. Plans with above office and with Puget Sound Regional office, 4015 20th Ave. W., Seattle. $50 deposit.

Description: 12', 20'x80' concrete rearing ponds; 4, 40'x60' concrete holding ponds; prefabricated metal garage, shop and storage buildings; 90'x90' hatchery building; five block residences; water supply facilities. DC 4-16

●IRRIGATION EQUIPMENT— Kennewick, Wash.

Bids to be received until 2:30 p.m., April 24, by Kennewick School District No. 17 in Kennewick Senior High School, 500 S. Dayton, Kennewick, and will be opened at 7:30 p.m. in the superintendent's office, for irrigation equipment for the new junior high school. Plans with above office. Certified, cashier's check or bid bond 5%. DC 4-12

★LEVELING INDUSTRIAL SITE— Kennewick, Wash.

Award to R. E. Hall, 303 S. Union, Kennewick, $43,360, by Port Commission. John F. Neuman, manager, Port of Kennewick, 211 W. Kennewick Ave., Kennewick, for moving about 400,000 yards of material to level about 90 acres of the Hedges Industrial site five mi. downriver from Kennewick. Specifications by N. W. Haner & Associates, consulting engineers, 220 S.W. Alder, Portland. SP 4-11. Previous report 4-3

●OPERATIONAL ALERT APRON— Larson AFB, Wash.

(Estimated cost $1,000,000 to $5,000,000)

Bids will be opened 2 p.m., May 13, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for operational alert apron, fiscal year 1958 supplemental program, Larson AFB; ENG-45-164-58-52. Specifications with above office. $100 deposit. For quantities see previous report. SP 4-16. Previous report 4-11

●ELECTRICAL DISTRIBUTION— Makah AFS, Wash.

Bids will be opened 2 p.m., May 7, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modification to existing electrical aerial distribustion system including construction of pole mounting substations and other transformer installations in Cantonment Area at Makah Air Force Station; ENG-45-108-58-121. Plans with above office. Aerial conductors, poles and accessories are also included. SP 4-12

OPERATIONAL APRON, FUELING FACILITIES— McChord AFB, Wash.

Bids will be opened on or about May 6 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of a 775' wide x 1173' long x 13" thick portland cement concrete operational apron, lighting and storm drainage system and for jet fuel storage and distribution system at McChord AFB; ENG-45-108-58-117. Specifications with above office. Specifications for the fueling system were prepared by Bouillon, Griffith & Christofferson, architects-engineers, 1411 Fourth Avenue Bldg., Seattle.

APRON: Apron to be complete with 12 fueling outlets and approximately 800 tie-down anchors. Quantities: 112,000 c.y. stripping and excavation; 140,000 sq. yd. subgrade preparation; 15,200 c.y. base course; 300 c.y. leveling course; 50,000 c.y. portland cement concrete; 2,200 ton asphaltic concrete; 1,100 sq. yd. pavement marking; 1,200 c.y. topsoil; 2 acre fertilizing, seeding. FUEL FACILITIES: Includes 15,000 bbl. vapor dome storage tank; 30'x60' pumphouse with monolithic concrete foundation and roof slab and masonry unit walls complete with 6 jet fuel pumps and water separators, and 6 underground tanks of 50,000 gal. capacity each (10½' OD x 77½' length); 4,300' of 8", 4,800' of 6" and 450' of 4" fuel line; construction of appurtenant fueling pits and truck fill stand. SP 4-16

▲PUMPHOUSE, PIPING— Medical Lake, Wash.

Bids received by Department of General Administration, 218 General Administration Bldg., Olympia, for construction of about two mi. pipeline tapping into an older line from existing wells to a reservoir, a pump and pumphouse at Eastern State Hospital, Merical Lake. Bids opened April 10. LOW BIDS: McClintock & Turk, N. 3812 Division, Spokane, $95,996; H. E. Schimmels Co., E. 8423 Sprague, Spokane, $97,543; Lester Johnson, Box 81, Yardley, $97,678.

DE 4-12. Previous report 3-27

★AIR-GROUND COMMUNICATION FACILITY— Neah Bay, Wash.

Award to Barfis Co., 3931 Ridgeley Drive, Los Angeles, Calif., $46,240, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, for construction of VHF/UHF air to ground communication facility including building, engine generator, underground fuel tank and air conditioners, at Neah Bay; Proposal No. 4-58-959A.

SP 4-11. Previous report 4-3

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Awards announced by Washington State Highway Commission, Olympia, for two highway projects on which bids opened March 18.

SIGNS, Trosper Road to Martin Way—Install signs on 6.457 mi. PSH No. 1, Thurston County; FAP No. 1-001-2(58). AWARD: National Advertising Co., Box 1885, Vancouver, $53,326.

SIGNS, Moses Lake Bridge to SSH No. 11-G—Install signs on 4.261 mi. PSH No. 19, Grant County; FAP No. 1-002-4(14). AWARD: National Advertising Co., Vancouver, $31,494.

DE 4-12. Previous report 3-20

▲GRADING, PAVING, LIGHTING— Olympia, Wash.

Six bids received by City Council, City Hall, Olympia, for grading, paving, walk and lighting work on streets in the east-central section of Olympia, LID No. 615. TWO LOW: Bocek Bros., Box 666, Hoquiam, $169,220; Olympia Oil and Wood Products Co., State and Washington, Olympia, $174,594. HI BID: Western General Construction Co., 2601 S. 98th, Seattle, $205,891. SC 4-12

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received April 15 by Washington State Highway Commission, Transportation Bldg., Olympia, for 13 highway projects.

BITUMINOUS SURFACING, Chapman Creek to Wood Creek—Draining, grading, bituminous surfacing on 6.284 mi. PSH No. 8, Klickitat County; FAP No. F-047-1(4). Seventeen bids received. LOW BIDS: Vernie Jarl, Box 507, Gresham, Ore., $498,381; C. E. Oneal, Inc., Box 270, Ellensburg, $505,036; Babler Bros., 4617 S.E. Milwaukie, Portland, Ore., $511,299.

PAVING, Hyak to Rustic Inn—Draining, grading, surfacing, cement concrete and asphaltic concrete paving 5.433 hi. PSH No. 2, Kittitas County; FAP No. I-002-2(17). Six bids. LOW BIDS: Max J. Kuney Co., N. 120 Ralph, Spokane, $861,251; Sather & Sons, N. 1410 Howe, Yardley, $876,583; Pieler Construction Co., 201 E. 8th, Port Angeles, $901,233.

PAVING, Rustic Inn to Top Easton Hill—Draining, grading, surfacing, cement concrete and asphaltic concrete paving 5.146 mi. PSH No. 2, Kittitas County; FAP No. I-002-2(18). Six bids. LOW BIDS: Sather & Sons, N. 1410 Howe, Yardley, $946,678; Pieler Construction Co., 201 E. 8th, Port Angeles, $990,920; Max J. Kuney, N. 120 Ralph, Spokane, $999,935.

PAVING, 13th St. and National Ave. Interchanges—Clearing, draining, grading, surfacing, constructing cement treated base, asphaltic concrete paving, installing illumination and signs, PSH No. 1, Lewis County; FAP No. I-001-2(57). Five bids. LOW BIDS: Peter Kiewit Sons' Co., Box 1777, Vancouver, $562,602; Pacific Sand and Gravel Co., Box 628, Centralia, $582,904; J. N. Conley and S. D. Spencer & Sons, 4332 N.E. Royal Court, Portland, joint venture, $583,334.

BITUMINOUS SURFACING, BRIDGES, Ewan to Cottonwood Creek and Pleasant Valley Creek Bridge and Approaches—Draining, grading, surfacing, bituminous surfacing, two reinforced concrete flat slab bridges, 4.678 mi. PSH No. 18, Whitman County; FAS Nos. S-0289(3) and S-0289(4). Eleven bids. LOW BIDS: F. R. Hewett Co., E. 5960 Baldwin, Spokane, $410,609; Grant Construction Co., Box 351, Coeur d'Alene, Idaho, $415,827; Murphy Bros., E. 3728 Broadway, Spokane, $448,730.

PLANTMIX, BRIDGE, Little Hoquiam River Bridge and Approaches—Clearing, draining, grading, surfacing, bituminous plantmix, reinforced concrete slab bridge on 0.233 mi. PSH No. 9, Grays Harbor County; FAP Nos. U-010-1(2) and F-007-1(8). Six bids. LOW BIDS: Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam, $169,874; Harry H. Hawkins, 16274 39th N.E., Seattle, $185,169; John E. Alexander, Box 3583, Seattle, $191,746.

BITUMINOUS SURFACING, Adams and Morrison Roads—Bituminous surfacing 17.809 mi. on Grant County road; FAS Nos. S-1002(7) and S-1074(3). Five bids. LOW BIDS: Grant Construction Co., Coeur d'Alene, Idaho, $168,694; C. J. Painter, 947 W. Court, Pasco, $14,022; Materne Bros., Box 7052, Spokane, $195,042.

PAVING, S. 96th St. to S. 35th St. in Tacoma and Roy Jct. South—Surfacing shoulders and paving with asphaltic concrete 8.881 mi. PSH No. 5, Pierce County; a State Project. Six bids. LOW BIDS: Woodworth & Co., 1200 E D St., Tacoma, $214,022; Asphalt Paving and Engineering Co., Box 356, Tacoma, $215,540; Cascade Asphalt Paving Co., 6238 S. Tacoma Way, Tacoma, $217,662.

PAVING, Leavenworth—Draining, grading, asphaltic concrete paving 0.333 mi. PSH No. 15, Chelan County; a State Project. Three bids. BIDS: Morrill Asphalt Paving Co., Inc., 107 5th, Wenatchee, $56,895; United Paving Co., Route 4, Box 150, Spokane, $64,642; Washington Asphalt Co., 309 W. 39th, Seattle, $81,596.

MAINTENANCE, STORAGE BUILDING, Spokane Valley—Construction building, Spokane County; a State Project. Five bids. LOW BIDS: Gus J. Bouten, N. 627 Napa, Spokane, $29,396; William F. Spilker & Son, Route 5, Spokane, $30,262; A. A. Arsenault, Inc., 729 N. Helena, Spokane, $30,433.

OFFICE, SHOP BUILDING ADDITION, Davenport—Construction addition, Lincoln County; a State Project. Six bids. LOW BIDS: William F. Spilker & Son, Spokane, $27,743; Gus J. Bouten, Spokane, $28,000; A. A. Arsenault, Inc., Spokane, $28,061.

FERRY TRESTLE, SHELTER, Tahlequah Ferry Terminal—Construct ferry trestle, passenger shelter, toll booth for Washington Toll Bridge Authority in King County; a State Project. Five bids. LOW BIDS: Cotton Engineering and Shipbuilding, 126 Madison, Port Townsend, $53,443; Hart Construction Co., 3536 E. 11th, Tacoma, $54,534; Shaffer Construction Co., 3409 Everett Ave., Everett, $56,479.

ILLUMINATION, Port Washington Narrows Bridge—Install illumination and traffic signals on 1.74 mi. SSH No. 21-B, Kitsap County; a State Project. Seven bids. LOW BIDS: Carl T. Madsen, Inc., Box 1545, Tacoma, $78,323; Peterson Electric Co., 339 N. Callow, Bremerton, $78,748; Rhodes Electric, Box 32, Silverdale, $81,259.

BUILDING, Port Washington Narrows Bridge-Warren Toll Plaza—Construct administration building and toll plaza for Washington Toll Bridge Authority, Kitsap County; a State Project.

Five bids. LOW BIDS: Commercial Builders, 114 Shore Drive, Bremerton, $40,489; Ostruske-Murphy, Inc., 1515 Center, Tacoma, $41,000; Peter Kiewit Sons' Co., Box 1777, Vancouver, $42,988.
DE 4-16. Previous report 4-8

★CLEARING, CONSTRUCTING ROADS— Pacific County, Wash.

Award to North Idaho Construction Co., Box 190, Coeur d'Alene, Idaho, $17,875, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for 4.5 mi. of clearing right-of-way and constructing 12' access road for the Raymond-Willapa River 115-kv line No. 1, Pacific County, beginning at Raymond Substation and terminating in Willapa River Substation; Inv. No. 8689.
WB 4-16. Previous report 4-5

POWER DAM, POWERHOUSE— Packwood, Wash.

(Estimated cost $5,000,000)
The Washington Public Power Supply System, Owen Hurd, manager, Kennewick, will file an application with the Federal Power Commission for a preliminary permit for a dam at the outlet of Packwood Lake with a powerhouse near the town of Packwood, Lewis County, Wash. The powerhouse would produce about 18,000 kw and its turbines would be driven by a head of 1,690' of water from Packwood Lake. Consulting engineers are R. W. Beck & Associates, Tower Bldg., and Jack D. Stevens, 1000 2nd Ave., both Seattle. SC 4-15

●ACCESS ROAD— Port Angeles, Wash.

Bids will be opened 3 p.m., April 30, in the office of R. H. Lovell, engineer for Peninsula Plywood Corp., 439 Marine Drive, Port Angeles, for construction of 5.75 mi. forest access road, including clearing, grubbing, grading and ballasting 259.5 sta. Class EE road and 44.1 sta. Class E road in Clallam County. Culvert pipe is only material to be furnished by the company.
Quantities: 46.5 acre clearing; 35 acre grubbing; 219,029 c.y. common excavation; 18,796 c.y. solid rock excavation; 29,150 c.y. select roadway borrow; 157,620 sta. yd. overhaul; 4,222' corrugated metal pipe. SC 4-16

GRADING, PAVING— Pullman, Wash.

Howard Phelps, 1900 Monroe, Pullman, has been retained by Pullman School District No. 307, Pullman, to prepare plans and specifications for grading and paving of parking and playground areas at several schools in Pullman. Most of the work will be performed in the area of the high school.
MH 4-16

●ROAD SEAL TREATMENT— Richland, Wash.

Bids will be opened May 8 by Atomic Energy Commission, Box 550, Richland, for application of a non-skid single seal treatment on 22 mi. of four-lane and one mi. of two-lane plant roads at Hanford Works, Richland. Specifications with above office. Work includes patching and repairing additional existing road surfaces. SP 4-15

▲WATER LINE— Ritzville, Wash.

Thirteen bids received by Town Council, Town Hall, Ritzville, for furnishing and installing about 5,550' of 8" to 12" asbestos-cement water pipe, valves and fittings. Bids opened April 7. TWO LOW: R. K. Nickerson and R. C. Marvel, Goldendale, $38,864; W. A. McConnachie, 2 Roza Vista Drive, Yakima, $39,200. HI BID: Zuber Bros. Contractors, 3600 S.E. 28th, Portland, $66,155. A low bid of $37,650 was submitted for the bid opening but was disqualified because of no bid bond. SP 4-11. Previous report 4-3

●STEAM DISTRIBUTION, HEATING SYSTEMS— Seattle, Wash.

Bids will be opened 2 p.m., April 28, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for rehabilitation of steam distribution and heating systems at the U.S. Naval Station in Seattle; Spec. No. 12350/58. Plans with above office.
Work includes provision of 400' of new, above ground, outdoor 3" condensate return pipe and 1½" high pressure drip pipe on steel supports; new steam traps, radiator run outs; replacement of portions of condensate return lines in 14 buildings; provision of two new condensate return pump and receiver units. SP 4-12

●CRUSHED STONE SURFACING— Seattle, Wash.

Bids will be opened 9:30 a.m., April 21, by King County Commissioners, 402 County City Bldg., Seattle, for furnishing 5,000 c.y. crushed stone surfacing top course, ⅝" minus. Specifications with city purchasing department, 606 County City Bldg., Seattle. SP 4-12

■CLARIFIER COVERS— Seattle, Wash.

Additional planholders announced for construction of three steel frame covers for the clarifiers and aeration units at the sewage treatment plant, 12550 Shorewood Drive, Seattle. Bids will be opened 2 p.m., April 21, by Southwest Suburban Sewer District, 864 S.W. 136th St., Seattle. Plans with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.
Additional planholders: Standard Steel Fabricating Co., 8155 1st Ave. S.; Luckenby Structural Steel Co., 2745 11th S.W.; Century Metal Works, 7126 W. Marginal Way; Wayne Construction Co., Inc., 3810 Stone Way. Of Seattle. PD 4-12. Previous report 4-10

★TRANSFORMERS— Seattle, Wash.

Award to English Electric Export and Trading Co., Ltd., 701 United Pacific Bldg., Seattle, $55,413, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing two of 7,500-kva, 26.4/13.8-kv, three-phase transformers.
PD 4-11

●AIR COMPRESSOR, PAVING BREAKER— Seattle, Wash.

Bids to be opened 10 a.m., April 23 by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle for air compressor and paving breaker. Plans with above office. DM 4-12

●BLEACHERS— Seattle, Wash.

Bids to be opened 10 a.m., April 22, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing and installing portable tubular steel bleachers at Laurelhurst and Haller Lake playgrounds and Stan Sayres Park. Plans with above office. DM 4-12

●EVAPORATE CONDENSERS— Seattle, Wash.

Bids will be opened 2 p.m., April 28, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for installation of three evaporative condensers, one cooling water circulating pump, oil trap, steel condenser platform and piping in Bldg. No. 39, U.S. Naval Supply Depot, Seattle; Spec. No. 12330/58. Plans with above office.
SP 4-12

●PAVING, FENCING— Seattle, Wash.

Bids to be opened 11 a.m., April 29, by Port of Seattle, 406 Bell St. Terminal, Seattle, for 1958 concrete and bituminous paving and security fencing at Seattle-Tacoma Airport. Plans with above office. $50 deposit. Cashier's check or bid bond 5%. Completion time November 1.
Quantities: 1,010 sq. yd. of 12" concrete, 24,000 sq. yd. of 10" concrete, 40,000 sq. yd. of 6" bituminous paving; 4,720 ton base rock; 4,800 ton asphaltic concrete for overlay paving; 72,000 sq. yd. seeding, soil stabilization; 25,000' chain link fencing, 11 gates; drainage. DM 4-11

●AIRPORT LIGHTING— Seattle, Wash.

Bids to be opened 11 a.m., April 29, by Port of Seattle, 406 Bell St. Terminal, Seattle, for 1958 field lighting at Seattle-Tacoma Airport. Plans with above office. $50 deposit. Cashier's check or bid bond 5%. Completion time November 1.
Quantities: 22 high intensity runway lights, 146 taxiway lights, 2,700' three-unit underground ducts, 375' two-unit underground ducts, 90,000' of No. 8 and No. 6, 5,000 volt and 3,000 volt direct burial cable, 25,000' trenching, other appurtenant items. DM 4-11

▲REDUCTION GEAR— Seattle, Wash.

No bids were received at the April 10 bid opening, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one Western Marine reduction gear, model 27 complete, 3-1 reduction.
PD 4-11. Previous report 4-8

●PIPE COUPLINGS, SLEEVES— Seattle, Wash.

Bids will be opened 10 a.m., April 21, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing pipe couplings and sleeves. Specifications with above office.
PD 4-15

▲BITUMINOUS ROAD SURFACING— Seattle, Wash.

Four bids received by King County Commissioners, 402 County City Bldg., Seattle, for resurfacing with bituminous roadmix (Sched. A) or bituminous plantmix (Sched. B) 11.6 mi. of streets in Lake City area, ULID No. 12. Bids opened April 14. BIDS: Doolittle Construction Co., 510 Adams St., Schedule A, $127,990 (plus $5,434 alt.); Schedule B, no bid; Diesel Oil Sales Co., 2155 Northlake, $122,704 (plus $6,175 alt.); $138,873 (plus $6,175 alt.); S&S Asphalt Co., 8328 1st N.W., $116,997 (plus $5,434 alt.); $125,196 (plus $5,434 alt.); Washington Asphalt Co., 309 W. 39th, no bid, $119,653 (plus $4,940 alt.). Of Seattle.
PD 4-15. Previous report 4-4

▲CRUSHED STONE SURFACING— Seattle, Wash.

Fourteen bids for S.E. 424th and eight bids for 156th N.E. received by King County Commissioners, 402 County City Bldg., Seattle, for clearing, draining, grading and crushed stone surfacing 1.25 mi. of S.E. 424th St., and for clearing, draining, grading and crushed stone surfacing 1.34 mi. of 156th Place N.E., King County. Bids opened April 14. S.E. 424TH—LOW BIDS: Aall City Excavating Co., 8114 9th S.W., $22,328; Bass Construction Co., 12526 Aurora Ave., $22,873. HI BID: W. J. Halleran, 416 Virginia St., $32,761. 156TH N.E.—LOW BIDS: Bass Construction Co., $16,866; Western General Construction Co., 7721 36th S.W., $17,899. HI BID: Northwest Construction Co., 3950 6th N.W., $23,893. Of Seattle.
PD 4-14. Previous report 4-4

●WATER WORKS MATERIALS— Seattle, Wash.

Bids will be opened 10 a.m., April 21, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing of water works copper tubing, fittings and gaskets, as follows: 100 ground key angle stops; 25 of ¾"x¾"x1" copper flared tees; 200 of ½", 300 of ¾" and 100 of 1" lead flange asbestos gaskets. Specifications with above office. PD 4-11

★PIG LEAD— Seattle, Wash.

Award to Non-Ferrous Metals, Inc., 2906 16th S.W., Seattle, $2,510, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 20,000 lb. pig lead. Four bids were received at the April 14 bid opening, three in indentical amount of $2,510, and a high of $2,610 submitted by Federated Metals, 101 Dakota, Seattle. PD 4-15. Previous report 4-8

●COMPRESSOR— Seattle, Wash.

Bids will be opened 10 a.m., April 21, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one 10 hp horizontal tank mounted compressor, per specifications with above office.
PD 4-14

SEWER IMPROVEMENTS— Snohomish, Wash.

Bids may be called in late spring by City of Snohomish for construction of additional sewer collection system, interceptor trunk lines, pumping stations and a lagoon-type sewage treatment plant. Working drawings are underway by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.
PD 4-11. Previous report 3-27

★SPRINKLER SYSTEM— Spokane, Wash.

Award to Standard Plumbing and Heating

Co., Inc., E. 1801 Sprague Ave., Spokane, $58,798, by City Council, City Hall, Spokane, for construction and installation of a complete automatic sprinkler system for the approaches to the Maple Street Bridge in Spokane. SP 4-16. Previous report 4-3

★**ASPHALT PLANT BURNER— Tacoma, Wash.**

Award to Evans Engine and Equipment Co., Box 5172, Seattle, $2,780, by City Council, City Hall, Tacoma, for furnishing one multiple burner for asphalt plant dryer. Bids opened March 10. SP 4-11. Previous report 3-7

★**DUST TANK, SYSTEM— Tacoma, Wash.**

Award to Schneider-Simpson Sheet Metal and Blower Co., 1551 S. Tacoma Way, Tacoma, $9,798, by Port of Tacoma, Transit Shed No. 1, Pier No. 2, Port of Tacoma Terminal, Tacoma, for fabrication and installation of dust pick-up system, 3,400 c.y. capacity dust storage tank, re-arrangement of discharge of three cyclones at the Portgrain elevator. SP 4-11. Previous report 4-8

★**CONCRETE CASEMENT— Tacoma, Wash.**

Award to Bona Fide Builders, Inc., 2430 E. 11th, Tacoma, $16,290, by Department of Public Utilities, Box 1639, Tacoma, for construction of about 233' of concrete encasement around a 64" steel water supply line about 20 mi. southeast of Auburn. Thirteen bids were received for the March 31 opening. SP 4-15. Previous report 3-20

★**CAST IRON WATER MAIN, COPPER TUBING, BRONZE FITTINGS— Tacoma, Wash.**

Awards announced by Department of Public Utilities, Box 1639, Tacoma, for 1—installing 8" cast iron water mains in Alaska St. from S. 64th to 72nd, LID No. 5293, 2—furnishing annealed seamless copper tubing, and 3—furnishing bronze fittings. Bids opened March 31. AWARDS — WATER MAINS: Eltrich Bros., Inc., 1002 S. Monroe, Tacoma, $13,930. COPPER TUBING: Rosen Supply Co., 2919 S. Chandler, Tacoma, $14,-104. BRONZE FITTINGS: American Plumbing and Steam Supply Co., 1908 Pacific, Tacoma, $3,081. SP 4-15. Previous report 3-26

●**CONCRETE CULVERT— Tacoma, Wash.**

Bids to be opened 11 a.m., April 29, by Pierce County Commissioners, Courthouse, Tacoma, for removing log culvert and replacing with concrete culvert pipe on Lackey County Road, Section 11, Township 21 N., Range 1 W., W.M.; CRP No. 1749. Plans with Keith F. Jones, county road engineer, Courthouse. $5 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 880 c.y. structure excavation; 320 c.y. gravel backfill including haul; 80' standard reinforced concrete 60" culvert pipe. DM 4-16

●**STEEL ROLLER, TRAILER— Tacoma, Wash.**

Bids to be received until 11 a.m., April 21 by city clerk, 305 City Hall, Tacoma for furnishing steel roller with trailer. Specifications with above office. Certified check or bid bond 5%. DC 4-16

●**PAVING— Tacoma, Wash.**

Bids to be received until 11 a.m., April 21 by city clerk, 305 City Hall, Tacoma, for asphaltic concrete paving, concrete curb and gutter, storm drainage on seven city streets in LID No. 4634. Plans with above office. Certified check or bid bond 5%. DC 4-16

★**STREET IMPROVEMENTS— Tumwater, Wash.**

Award to J. F. Forbes, Box 174, Olympia, $108,380, by Town Council, Town Hall, Tumwater, for improvement and repair, including laying of asphaltic concrete and a light bituminous mixture, on 19 mi. of streets in Tumwater. 2ND LOW BID: Olympia Oil and Wood Products Co., State and Washington, Olympia, $109,840. HI: Cascade Asphalt Paving Co., 6238 S. Tacoma Way, Tacoma, $115,220. SC 4-16. Previous report 12-4

PILES, DOLPHIN— Vancouver, Wash.

Sam A. Masters, 14317 S.E. Evergreen Highway, Vancouver, has applied to the Corps of Engineers, Portland District, 628 Pittock Block, Portland, for a permit to drive six single piles and a 3-pile dolphin in the Columbia River along the right (northerly) shore about 7.8 mi. upstream from the Interstate Bridge at Vancouver. Work consists of driving two single piles landward of the low water line. Two single piles and a 3-pile dolphin will be driven channelward 25' apart beginning 10' from the low water line. Two single piles will be driven 25' apart beginning 25' downstream from the dolphin. Maps and plans for the work are on file in the office of Colonel Jackson Graham, Portland District Engineer, and letters will be received there until April 18 concerning the effect of the work on navigation. SP 4-11

●**BITUMINOUS PLANTMIX RESURFACING— Vashon Island, Wash.**

Bids to be opened 9:30 a.m., April 28, by King County Commissioners, 402 County City Bldg., Seattle, for bituminous plantmix resurfacing 5.6 mi. roads on Vashon Island, involving 7,505 ton bituminous plantmix in place, 1,860 c.y. crushed stone top course for shoulder, 28 ton asphalt-cement prime coat. Plans with D. L. Evans, county road engineer, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities—Proj. 1: 0.5 mi., 670 ton bituminous plantmix, 175 c.y. crushed stone top course, 2.5 ton asphalt-cement prime coat; Proj. 2: 1.5 mi., 2,010 ton plantmix, 525 c.y. crushed stone, 7.5 ton asphalt-cement; Proj. 3: 1.1 mi., 1,457 ton plantmix, 385 c.y. crushed stone, 5.5 ton asphalt-cement; Proj. 4: 0.8 mi., 1,072 ton plantmix, 280 c.y. crushed stone, 4 ton asphalt-cement; Proj. 5: 1.7 mi., 2,278 ton plantmix, 595 c.y. crushed stone, 8.5 ton asphalt-cement. DM 4-12

ELECTRICAL IMPROVEMENTS— Walla Walla, Wash.

(Estimated cost $300,000 to $400,000)

Bids will be called about May 29 for opening about June 8, by Veterans Administration, Director of Design Service, room 2707, Munitions Bldg., Washington, D.C., for underground electric distribution system, including electrical cable and ducts, to serve the Veterans Administration Hospital in Walla Walla. SP 4-11. Previous report 12-4

HIGHWAY, RAILROAD—Wenatchee, Wash.

Bids will be opened soon by Chelan County PUD No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee, for construction of a new section of highway and railroad in the Rocky Reach dam site and pool area. SC 4-12

STREET IMPROVEMENTS— Wilbur, Wash.

Clarence Simpson, engineer, N. 909 Argonne Road, Spokane, has been retained by Wilbur city officials to prepare specifications for street improvements in Wilbur. Bids should be called in the near future. A 20-mill levy was approved March 28 for the work. MH 4-12

ASPHALTIC CONCRETE SURFACING— Yakima, Wash.

Preliminary surveys underway by Sam Hobbs, city engineer, City Hall, Yakima, for asphaltic concrete surfacing on D St., widening and resurfacing of Lenox Ave., and grading, draining, ballasting and surfacing of King St. and Maryland St. in Yakima. IG 4-12

CYCLONE FENCE— Yakima, Wash.

Surveys are underway by Yakima School District No. 7, Milton Martin, superintendent, 112 N. 4th Ave., Yakima, for construction of about 2,382' of 5' high cyclone fence extending along the Pacific Power and Light Co. ditch for the new elementary school to be constructed at 28th and Lincoln avenues in Yakima. IG 4-12

DOMESTIC WATER SYSTEMS— Yakima, Wash.

Public hearing will be held at 10 a.m., April 30, by City Council, City Hall, Yakima, concerning installation of a domestic water system on the extension of N. 1st St. to Oak St., and a domestic water system in Lincoln Heights on N. 30th-31st and 32nd avenues in Yakima. IG 4-16. Previous report 3-29

IDAHO

●**DRILL WATER WELL— Arimo, Idaho**

Bids to be opened 8 p.m., May 1, at Village Hall, Arimo, for drilling 18" water well and installing 5.16" minimum steel casting. Plans with clerk. DC 4-15

▲**PIER REPAIRS— Bayview, Idaho**

Bids received by 13th Naval District, U.S. Naval Station, Seattle, for repairs to craneway pier at the U.S. David Taylor Model Basin Field Station, Bayview; Spec. No. 12317/58.

Eight bids received for April 15 opening. LOW BID: E. O. Johnson, Box 1052, Spokane, $10,511. HI BID: R. J. McCarthy, 17860 Ballinger Way, Seattle, $15,112. SP 4-16. Previous report 3-20

PLANTMIX PAVING— Blackfoot, Idaho

(Estimated cost $250,000)

Bids will be called late this month and opened in May by City Council, Blackfoot, for bituminous plantmix paving, concrete curbs and sidewalks in LID 35 involving 35 city blocks. Plans by David E. Benton, 1045 Syringa Drive, Idaho Falls, engineer for the city of Blackfoot. DM 4-12

▲**STATE HIGHWAY PROJECT— Boise, Idaho**

Nine bids received by Department of Highways, 603 Main St., Boise, for the following stockpile project on which bids opened April 8.

STOCKPILE, North of Oakley—Stockpiling 30,000 ton crushed gravel surfacing and 3,000 ton cover coat material, stripping 10,250 c.y. material deposits, opposite M.P. 8.0, State Highway No. 27, Cassia County; Proj. No. 241.

LOW BIDS: Western Construction Co., Box 628, Pocatello, $22,602; Quinn Bros. & Robbins, 703 S. 16th, Boise, $24,285; Twin Falls Construction Co., Box 1081, Twin Falls, $25,095. SP 4-11. Previous report 3-25

★**ALLEY SURFACING— Burley, Idaho**

Award to Olaf Nelson Construction Co., Logan, Utah, $176,000, by City Council, City Hall, Burley, for surfacing alleys in the downtown district and some residential districts in Burley. SC 4-15

WATERWORKS MATERIALS, INSTALLATION— Garden City, Idaho

Bids will be opened about May 1 by City Council, City Hall, Garden City, for a 1200-gpm deep well turbine pump, 10,000-gal. hydro-pneumatic pressure tank, controls, and various miscellaneous materials, and municipal waterworks pump station installation work. Plans by Carlyle W. Briggs, consulting engineer, 619 Grove, Boise. SP 4-9

▲**EARTHFILL DAM—Gooding County, Idaho**

Five bids received April 10 by Arthur Warren, commissioner, Department of Public Works, 432 Capitol Bldg., Boise, for construction of an earthfill dam with clay core wall and outlet and spillway structures, Dog Creek Project, near Gooding, Gooding County, Idaho. TWO LOW: Myers-Ivie Construction Co., Bellevue, $20,900; Rex Johnson Excavation Co., Addison Ave. W., Twin Falls, $23,200. HI BID: Wardle Bros. Excavating, 201 N. 30th, Boise, $38,949. SP 4-12. Previous report 4-3

▲**DEEP WELL PUMP— Idaho Falls, Idaho**

Six bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for furnishing and installing on existing pump base a deep well, oil-lubricated turbine pump in GCRE Area at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-941. Bids opened April 11. TWO LOW: Johnston Pump Co., Pasadena, Calif., $12,941; Mel Brown Co., S.

Utah Ave., Idaho Falls, $13,990. HI BID: Wintroath Pumps, Alhambra, Calif., $16,360. SP 4-15. Previous report 3-21

★SEWAGE TREATMENT PLANT—
Lewiston, Idaho

Awards announced by City Council, City Hall, Lewiston, for construction of primary treatment plant and pumping station (Contract No. 1), a 36" Clearwater River crossing (Contract No. 2) and interceptor sewers (Contract No. 3) in Lewiston. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. AWARDS—CONTRACT 1: Durham Contracting Co., Box 42, Moscow, and Henry George & Sons, Hutton Bldg., Spokane, $343,406 (joint venture). CONTRACT 2: M. F. Castle Co., N. 10503 Division, Spokane, $98,819. CONTRACT 3: M. F. Castle Co., $297,390.
DR 4-12. Previous report 3-13

● SEWER SYSTEM IMPROVEMENTS—
Moscow, Idaho

Bids will be opened 7:30 p.m., May 1, by City Council, Moscow, for improvements to the existing sewerage treatment plant (Contract No. 1), and approximately 15,000' of sanitary relief sewers (Contract No. 2). Plans with Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., (Box 508), Portland. $50 deposit. Certified check, bid bond or cash 5%.

The Project will double the capacity of existing sewage treatment facilities. Work under Contract No. 1 includes addition of primary clarifier, grit conditioning system, sludge thickener, primary digester mixer, secondary clarifier, and addition of distributor arms to existing filters; allied equipment and structures; approximately 500 c.y. of concrete. Contract No. 2 will require 18,000 c.y. excavation; 6,700' of 24", 1,750' of 21", 7,260' of 18" and 500' of 10" concrete or clay pipe.
WB 4-11. Previous report 12-6

APRON, TAXIWAYS, UTILITIES—
Mountain Home AFB, Idaho

(Estimated cost $1,000,000 to $5,000,000)

Bids will be opened on or about May 20 by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for airfield alert apron, access taxiways, drainage, water and electrical support items at Mountain Home AFB; ENG-45-164-58-51. Specifications with above office. $100 deposit. A pre-bid conference will be held April 23.

Quantities: 500,000 c.y. earthwork; 140,000 sq. yd. 23" portland cement concrete; 100,000 sq. ft. 2" asphaltic concrete shoulder and bank pavement; 40,000 sq. yd. 2" asphaltic concrete roads; 7,000' security fence; 500,000 sq. yd. grading and seeding; 7,000' sanitary sewer 4" to 8" trench 6' to 12' deep including two pump stations and manholes; 10,000' storm drain 10" to 36" trench 6' to 22' deep including manholes; 13,000' water system 8" to 10" trench 3' to 5' deep including 10 fire hydrants; 7,700' aerial distribution lines; 2,700' of 12-way underground duct; 2,000' of 4-way duct; 1,000' of 6-way duct; 16,000' type II 4" duct; 190,000' buried cable; revisions to night lighting vault; airfield and security lights and wiring including installation of Government-furnished lighting equipment; airfield striping and marking. Completion time January, 1959. SP 4-11

● AIRCRAFT WASHRACK—
Mountain Home AFB, Idaho

Bids will be opened 2 p.m., May 8, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of aircraft washrack, including 300 sq. ft. masonry block building, paving and utilities, at Mountain Home AFB; ENG-45-164-58-47. Plans with above office.

Work includes portland cement and asphaltic concrete paving; site development; water, sewer and electrical systems; chain link fencing. Quantities: 1,500 c.y. excavation; 1,200 c.y. embankment; 610 c.y. base course; 1,200 c.y. portland cement concrete; 1,650 bbl. portland cement; 450' of 4" water line; 370' of 8" concrete pipe drain line.
SP 4-11

▲PRODUCTION WELL— Mud Lake, Idaho

Cope Drilling Co., Airport Road, Idaho Falls, submitted the only bid on April 10, in amount of $3,710, to Arthur Warren, commissioner, Department of Public Works, 432 Capitol Bldg., Boise, for drilling, casing and testing a 24" production well on the Idaho Fish and Game Department's North Lake Wildlife Management Area in Jefferson County near Mud Lake.
SP 4-12. Previous report 3-27

ACCESS ROAD EXTENSION—
Orofino, Idaho

Charles Wingard, forest engineer, Clearwater National Forest, Orofino, has announced plans to add eight mi. to a timber access road now under construction between Bungalow and Canyon ranger stations in Clearwater National Forest. The project is pending allocation of an additional $6,000,000 sought by the U.S. Forest Service as part of the federal highway bill for the next two fiscal years. The money would be added to funds authorized for Forest Service roads and trails, raising the amount to $27,000,000 for each of the two fiscal years. Seven miles of the road is now under construction from Bungalow toward Canyon ranger station.
DR 4-11

● SANITARY FACILITIES—Palisades, Idaho

Bids will be opened 3 p.m., May 8, in the office of the project construction engineer, Bureau of Reclamation, Palisades, for sanitary facilities approximately 7.5 mi. upstream and southeast of Irwin, Bonneville County; Spec. No. 100C-331. Specifications with above office. SP 4-15

SEWAGE SYSTEM, TREATMENT PLANT—
Pocatello, Idaho

(Estimated cost $1,600,000)

Bids will be called about June by City Council, City Hall, Pocatello, for construction of a sewage treatment plant and additional sewer lines within the city. Plans by Hamilton & Voeller, consulting engineers, 110 N. 2nd, Pocatello.
SP 4-11. Previous report 2-26

★DRAIN AND WELL LATERALS—
Rupert, Idaho

Award to Ben Walton, 706 3rd Ave. W., Twin Falls, $53,113, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, for two drain laterals and laterals from four wells, Unit B, from 14 mi. southwest of Rupert to 9 mi. northeast of Rupert, Minidoka and Jerome counties; Spec. No. 100C-324. Bids were opened March 6 in reclamation offices, 11th and E St., Rupert.
SP 4-12. Previous report 2-13

SEWAGE DISPOSAL PLANT—
Twin Falls, Idaho

(Estimated cost $1,500,000)

Bond election will be held in June by City Commission, City Hall, Twin Falls, on a bond issue to finance construction of a sewage disposal plant and extension to the sewage system at Twin Falls. Consulting engineers for the project are Cornell, Howland, Hayes & Merryfield, 1600 Western Ave., Corvallis. SP 4-16. Previous report 1-4

MONTANA

★OIL DISTRIBUTOR— Billings, Mont.

Award to Billings White Truck Co., 1007 1st Ave. N., Billings, $12,532, less $1,200 allowance for used machine, by City Council, Billings, for purchase of a truck mounted oil distributor with 1,500-gal. capacity. Bids opened March 25.
EE 4-11. Previous report 3-18

■ ELECTRICAL DISTRIBUTION—
Glasgow AFB, Mont.

Planholders announced for electrical distribution system for maintenance hangar at Glasgow AFB; ENG-45-164-58-45. Bids will be opened 2 p.m., April 29, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.

Planholders: Sunset Construction Co., 2220 River Drive, Great Falls; Duke's Electric, Bldg. 35, Pasco Airport, Pasco; Olson Electric Co., 710 W. 8th, Vancouver; Leigland Co., Box 1862, Great Falls; John M. Schroeder, Inc., Box 366, Grand Forks, N. Dak.; Ekblad Electric, Box 754, Williston, N. Dak.; G.S. Electric Co., 3010 67th S.E., Mercer Island, Wash.; J. A. Tudor & Associates, Inc., 1004 S.E. Belmont St., Portland; Westinghouse Electric Corp., Hirbour Bldg., Butte. SP 4-12. Previous report 3-25

● PRIMARY RUNWAY, APRONS—
Glasgow AFB, Mont.

(Estimated cost $10,000,000)

Bids will be opened 2 p.m., May 15, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of primary runway, an alert operational apron, hangar access aprons, heavy operational apron and the 1958 fiscal year supplemental utilities program at Glasgow AFB; ENG-45-164-58-50. Plans with above office. $100 deposit.

A tour of the site will be conducted between 10 a.m. and 12 a.m. on April 17. Interested parties are to meet with Government representatives at the U.S. Post Office Bldg., Glasgow, at 10 a.m., April 17. Government transportation from Glasgow to the Airbase will be available; however, all persons who can conveniently do so are requested to be prepared to furnish their own transportation.

Pre-bid conference will be held at 2 p.m., April 17, in the Federal Courtroom, U.S. Post Office Bldg., Glasgow, to discuss problems concerning submission of bids, contract formalities, and performance of work. Interested parties are invited to submit written questions prior to, and for discussion at the conference. Questions should be addressed to the Walla Walla Corps of Engineers office with a copy to the Resident Engineer, Glasgow Project Office, Corps of Engineers, Box 728, Glasgow. Description of the project appears in the previous report.
SP 4-12. Previous report 4-8

SEWAGE TREATMENT PLANT—
Helena, Mont.

(Estimated cost $560,000)

An election will be held by City Council, Civic Center, Helena, on a bond issue to aid in financing a proposed primary sewage treatment plant to be constructed on the site of the city dump in Helena. The Department of U. S. Health, Education and Welfare has approved a $162,000 grant to help with financing. Consulting engineers for the project are Morrison-Maierle, Inc., 910 Helena Ave., Helena.
EE 4-16. Previous report 1-21

★SEWAGE LAGOON, SEWERS—
Hobson, Mont.

Award to Barry O'Leary, Inc., 215 N. 36th, Billings, $38,239, by Town Council, Town Hall, Hobson, for construction of sewage lagoon and sanitary sewer mains at Hobson. Work will start April 21.
DC 4-12. Previous report 4-1

SEWAGE PLANT, STREETS—
Kalispell, Mont.

L. B. McClintick, city engineer, City Hall, Kalispell, has recommended to the Kalispell City Council that the city apply for federal aid in planning and reconstructing the sewage disposal plant, for construction of streets, sidewalks and curbs, and for construction of covers for two city water reservoirs. RB 4-

▲OIL DISTRIBUTOR— Kalispell, Mont.

Six bids received by City Council, City Hall, Kalispell, for an oil distributor. Bids opened April 7. Following are net bids including trade-in. TWO LOW: Miller Machinery Co., 1610 River Drive N., Great Falls, $2,430; Western Construction Equipment Co., 2322 River Drive, Great Falls, $2,465. BID: Hall-Perry Machinery Co., 127 E. Main, Missoula, $2,770. RB 4-

▲ROAD OIL— Kalispell, Mont.

Bids received April 7 by City Council, City Hall, Kalispell, for furnishing 40,000 gal. dust-coat oil and 60,000 gal. SE-1 road oil. LOW BIDS—DUST-COAT OIL: Big West Oil Co. of Montana, Hutton Bldg., Spokane, Wash., 12.3c per gal.; Unity Petroleum Co., Route 1, Kalispell, 13c per gal.; Phillips Petroleum Co., North of Great Falls, 13.1

per gal. ROAD OIL: Balzer Oil Co., Thermopolis, Wyo., 9.81c per gal.; Unity Petroleum Co., Kalispell, 10c per gal.; Big West Oil Co., Spokane, 11.3c per gal. RB 4-11

Kalispell, Mont.

★**GRAVEL**—
Award to Valley Sand and Gravel, Route 1, Kalispell, 90c per yd., by City Council, City Hall, Kalispell, for furnishing 15,000 c.y. of ¾" crushed gravel for 3,000 c.y. washed chips for use in street repair and reconstruction. Bids opened April 7. OTHER BIDS: Charles J. Shannon Co., 520 S. Washington, Butte, 93c per yd.; Naranche & Konda, 2000 Aberdeen St., Butte, 94c per yd. RB 4-11

●**CLEARING, GRADING, DRAINAGE**—
Missoula, Mont.

Bids will be opened 2 p.m., May 15, by U. S. Forest Service, 1036 Federal Bldg., Missoula, for clearing, grading and drainage of 3.818 mi. of roadway in Deerlodge National Forest, Silver Bow County, Mont.; Divide Creek Proj. No. 96 (Sec. A). Specifications with above office.

Quantities: 19 acre clearing and grubbing (Unit A), 13 acre same (Unit B); 29,000 c.y. unclassified excavation (A), 28,000 c.y. (B); 600 c.y. unclassified excavation for borrow; 270 c.y. same for structures and backfill; 17,900 ton crushed gravel base course; 1,180' corrugated metal pipe or standard strength reinforced concrete culvert pipe. SP 4-16

★**SLOPE PROTECTION, TURBINES**—
Noxon Rapids Dam, Mont.

Awards announced by Washington Water Power Co., W. 825 Trent, Spokane, for slope protection work along the relocated main line of the Northern Pacific railway, and for erecting turbines and installing auxiliary mechanical equipment, heating, ventilating and air conditioning at the Noxon Rapids hydroelectric project in western Montana. AWARDS—SLOPE PROTECTION: Sather & Sons, 1410 Howe, Yardley, $300,000. TURBINES: Morgan Electric Co., 109 W. Harrison, Seattle, Wash., $350,000. EE 4-15

●**SUBSTATION**—
Trego, Mont.

Bids will be opened 2 p.m., April 29, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of the 6 mva Trego Substation located approximately 37 mi. northwest of Whitefish and on a county road 1.6 mi. west of U.S. Highway No. 93 or 0.9 mi. east of Trego, Lincoln County, Mont.; Inv. No. 8718. Plans with above office. Bid bond 25%.

Quantities: 310 c.y. excavation and grading; 189 c.y. structural excavation; 34 c.y. reinforced concrete footings; 16,980 lb. steel erection, installation of station equipment; 90 sq. ft. concrete sidewalks; 300 c.y. crushed rock. SP 4-11

ALASKA

★**RADAR MODIFICATION**—
Anchorage, Alaska

Awards announced by Corps of Engineers, Alaska office, D-E Bldg., Anchorage, for radar tower modifications at Campion (Sched. A), King Salmon (Sched. B), Sparrevohn (Sched. C) and Indian Mountain (Sched. D) Air Force Stations; ENG-95-507-58-31. AWARDS—SCHED. A: Peter Kiewit Sons' Co., 1300 Aloha, Seattle, $118,900. SCHED. B: Chris Berg, Inc., 2730 Westlake N., Seattle, $72,780. SCHED. C: Chris Berg, Inc., Seattle, $149,685. SCHED. D: Reed & Martin, Box 568, Fairbanks, $113,502. AL 4-12. Previous report 4-8

●**MUNICIPAL DOCK**— **Anchorage, Alaska**
(Estimated cost $6,300,000)

Bids will be opened 2 p.m., A.S.T., May 28, by City Council, George C. Shannon, city manager, City Hall, Anchorage, for construction of a 600' municipal dock and port facility, consisting of a concrete deck on steel piling, railroad trestle and highway approaches, dredging, and two 40-ton and two 5-ton level-luffing cranes, on Cook Inlet north of the present wooden dock in Anchorage. Plans available after April 18 from the office of C. A. Hostetler, city purchasing agent, 1st Ave. and Post Road (Box 400), Anchorage, and from Tippetts-Abbett-McCarthy-Stratton, consulting engineers, 62 W. 47th St., New York 36, N. Y. $50 deposit. AL 4-12. Previous report 3-22

★**WATER, SEWER LINE CONNECTIONS**—
Anchorage, Alaska

Award to Stingel's Excavating Co., Anchorage, $32,925, by City Council, City Hall, Anchorage, for water and sewer line connections to private properties in Anchorage. Four bids received for April 7 opening. 2ND LOW: Kenai Construction Co., Anchorage, $33,255. HI BID: Mack's Excavating Co. and Hosler Contracting Co., 1230 11th, Anchorage, $58,020 (joint venture). AL 4-15. Previous report 3-26

★**FLAT IRON, STEEL SHEET**—
Elmendorf AFB, Alaska

Award to Steel Fabricators, Inc., Box 1039, Anchorage, 20c per foot, by U.S. Air Force, Elmendorf AFB, for furnishing 32,000 sq. ft. galvanized flat iron or steel sheet; Inv. No. 59-100. AL 4-11

▲**POWER, LIGHT MODIFICATION**—
Elmendorf AFB, Alaska

Four bids received by U.S. Air Force, Procurement Office, Elmendorf AFB, for modification of power and light in Hangar No. 1, Bldg. 11-570, and Hangar No. 2, Bldg. 11-670, at the base; IFB 65-501-58-111. Bids opened April 9. TWO LOW: Allen Electric, Box 1533, Anchorage, $405,436; City Electric of Anchorage, Inc., Box 3698, Eastchester Branch, Anchorage, $452,641. HI BID: Turnagain Electric, Box 3117, Eastchester Branch, Anchorage, $495,136. AL 4-11. Previous report 3-19

●**PARKING APRON REPLACEMENT**—
Elmendorf AFB, Alaska

Bid opening of April 11 extended to 10 a.m., April 21, by U.S. Air Force, Elmendorf AFB, for replacement of 13,200 sq. yd. parking apron at the base; Inv. No. 58-117. AL 4-15. Previous report 3-28

SEWERS, LIFT STATION—
Fairbanks, Alaska
(Estimated cost $550,000)

Plans have been completed by Robert L. Crow, city engineer, Box 1348, Fairbanks, and have received APW approval, on sewer extensions and lift station for the east portion of the old townsite. Plans are now waiting funds. Quantities: 15,630 c.y. excavation; 270' of 8" cast iron pipe; 18,640' of 8" wood stave pipe; 61 manholes. DM 4-12

▲**NUCLEAR POWER PLANT**—
Fort Greeley, Alaska

Eight proposals were submitted to Corps of Engineers, Alaska district, in the Seattle branch office, 1519 S. Alaskan Way, Seattle, for construction of an operating steam model nuclear power plant at Fort Greeley, 60 mi. south of Fairbanks on the Alaska Highway, Inv. No. 58-25. Basic design of the plant was completed by Alco Products Co., Inc., Schenectady, N. Y., builder of Army Package Power Reactor at Fort Belvoir. The project was not advertised but was offered to ten selected firms for quotations. Eight of these proposals were read April 8 at a meeting attended only by Army Engineer officials and representatives of the contractor firms. TWO LOW QUOTATIONS: Peter Kiewit Sons' Co., Hoge Bldg., Seattle, $4,897,000; Beck Constructors, 3647 Stone Way, Seattle, $4,997,000. HI: Guy F. Atkinson Co., South San Francisco, Calif., $6,792,000. SC 4-12. Previous report 12-24

▲**STEEL TOWERS, TRANSMISSION LINES**— **Juneau, Alaska**

Eight bids received in the office of the Contracting Officer, U.S. Army Alaska Communication System, 421 Federal Office Bldg., 909 1st Ave., Seattle, for installation of Government-furnished vertical steel towers, tower lighting, coaxial transmission lines and ground systems at CAA Communication Transmitter Site, Juneau; SC-45-041-58-13. Bids opened April 14. LOW BIDS: Pacific Testing Laboratories, 3220 17th W., Seattle, $7,150; Alaska Transfer, Inc., 246 Marine Way, Juneau, $9,300; Hildre Sand and Gravel, 1011 Capitol Ave., Juneau, $12,818. SP 4-15. Previous report 3-18

▲**GRADING**— **Juneau, Alaska**

Bids were opened April 15 by Bureau of Public Roads, Juneau, for grading Fairbanks-Nenana Highway; Proj. F-037-1(5). LOW BIDS: Green Construction Co., 321 Locust, Des Moines, Iowan, $583,333; M-B Contracting Co., 1019 Lloyd Bldg., Seattle, Wash., $633,079; Ramstad Construction Co., Box 1454, Anchorage, $666,774.

Project involves 53 acre pit clearing, grubbing; 20 acre unclassified excavation; 410,000 c.y. borrow excavation; 230,000 c.y. stripping; 53,000 c.y. overhaul of borrow; 209 c.y. mi. 24" galvanized corrugated metal pipe; 2,972' structural steel piles; 840' class A concrete. JU 4-16. Previous report 4-9

▲**WHARF RECONSTRUCTION**—
Ketchikan, Alaska

Bids were opened April 14 by 17th Coast Guard District, Public Works Office, Box 2631, Juneau, for reconstruction of wharf at the Coast Guard base in Ketchikan. LOW BIDS: Cole & Paddock, Box 616, Juneau, $283,397; William A. Smith Contracting Co., 637 American Bank Bldg., Portland, Ore., $305,250; M. B. Bilbrough Co., $307,000. Completion time 500 calendar days.

Project involves construction of permanent pier to replace existing timber wharf involving 12,000 sq. ft. timber-concrete composite deck, 1,000' steel-concrete composite caps with wide flange steel beam encased in concrete, 120 steel bearing piles, 200' treated fir piles, 200' utility lines, 14'x100' small boat float. DM 4-16. Previous report 3-26

■**INTER-BATTERY COMMUNICATION**—
Nike Sites, Alaska

Additional planholders announced for installation of inter-battery communications at Alaska Army Nike sites, including Fort Richardson area and Elelson-Ladd area; Inv. No. 58-34. Bids will be opened 2 p.m., April 22, by Corps of Engineers, Alaska district, in the Seattle branch office, 1519 S. Alaskan Way, Seattle.

Additional planholders: Collins Radio Co., 1930 Hi-Line Drive, and 1900 N. Akard, Dallas, Texas; Metro Construction Corp., 434 8th Ave.; Westinghouse Electric Corp., 3451 E. Marginal Way, Seattle; Philco Corp., Box 12, AAC, Elmendorf AFB; Madun Electric, Box 515, Spenard; Northern Supply, Box 439; City Electric of Anchorage, Box 3698 Eastchester Branch; George Mor, Box 285; City Electric Service, Box 1367, Fairbanks; Hickey Excavation Co., Box 5515, Mt. View; Line Material Co., 4502 Lois Drive; American Plumbing and Heating, 3001 E. 18th; Allen Electric Co., Box 1533; Henkels & McCoy, 6100 N. 20th, Philadelphia, Pa.; American Service, Box 915; Bruce Electric, Box 638; Stengels Excavating Co., 411 E. 11th St.; Chisum Electric, 1576 F St. Of Anchorage unless noted. SP 4-11. Previous report 4-9

WATER LINES, HYDRANTS—
Spenard, Alaska
(Estimated cost $10,460)

Board members of the Anchorage Independent School District, 1602 Hillcrest Drive, Spenard, have approved installation of water lines and two fire hydrants for North Star School, Fireweed Lane, Spenard, by Spenard Utilities Corp., Inc., Kenneth Kadow, president, 3110 Northern Lights Blvd., Spenard.

Work consists of extending approximately 2,000' from existing water line at 27th and Blueberry Lane to the school and connecting facilities. Transite water pipe and Mueller fire hydrants and valves will be used in installation. AL 4-8

NORTHERN CALIFORNIA

●**I.L.A.S., TACAN FACILITIES**—
Beale AFB, Calif.

Bid opening extended from April 15 to 2 p.m., April 23, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for construction and completion

of I.L.A.S. facilities and utilities and TACAN facilities at Beale Air Force Base, Yuba County, Calif.; ENG-04-167-58-32. Specifications with above address. Bid bond 20%. Completion time: 240 days.
RM 4-19. Previous report 3-29

▲RESURFACING STREETS— **Burlingame, Calif.**

Bids received April 7 by City Council, City Hall, 267 Park Rd., Burlingame, for resurfacing portion of Broadway, Burlingame Ave., Occidental Ave. and Grove Ave. in Burlingame. LOW BIDS: Fred D. Sperry Co., 1311 N. Carolan, Burlingame, $35,329; L. C. Smith Co., Inc., 225 19th Ave., San Mateo, $41,091; Fisk, Firenze & McLean, Inc., 1320 Marston Rd., Burlingame, $41,695.
BY 4-19

PLANTMIX PAVING— **Crockett, Calif.**

Bids received April 1 by Contra Costa Board of Supervisors, Box 509, Martinez, for resurfacing Cummings Skyway, between Crockett Blvd. and Franklin Canyon Highway, approximately two mi. south of Crockett, have been rejected because of emergency weather conditions. The work has been postponed indefinitely.
RM 4-19. Previous report 3-22

DAM REPAIRS AND MODIFICATIONS— **Daguerre Point Dam, Calif.**

Bids received April 9 by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for repairs and modifications, Daguerre Point Dam, Mi. 10.5, Yuba River, Yuba County, Calif., CIVENG-04-167-58-23, have been rejected as too high. Low bid of $20,386 was submitted by H. Earl Parker, Inc., 12th and F Sts., Marysville. Government estimate was $14,835.
RM 4-19. Previous report 3-29

▲WIDENING, SURFACING STREET— **Lakeport, Calif.**

Bids received April 7 by City of Lakeport, City Hall, Lakeport, for widening and surfacing 11th St. (Scotts Valley Road). ONLY BIDS: Harold P. Hastings, Box 546, Lakeport, $14,998; Lange Bros., Box 66, Lakeport, $15,865.
RM 4-19. Previous report 3-22

★COMMUNITY WATER SYSTEM— **Lathrop, Calif**

Awards announced by Lathrop County Water District, Lathrop, for installation of a community water system, including water mains, pumps and tank, to serve Lathrop Acres and vicinity. District engineer: Frank Rossi, Sr., Modesto. AWARDS—ASBESTOS CEMENT PIPE: Smillie Engineering Co., Apple Valley, $82,081. 50,000 GALLON STORAGE TANK: Pittsburgh-Des Moines Steel Co., Box 329, Santa Clara, $27,219. DRILLING TWO WELLS: Delta Pump Co., Stockton, $3,211.
RM 4-19. Previous report 3-29

WATER STORAGE TANK— Manteca, Calif.

A bond issue of $95,000 for water system improvements was defeated by Manteca voters at the April 9th municipal election.
RC 4-19. Previous report 2-8

SEWER LINE— Manteca, Calif.

Bids received March 17 by City Council, City Hall, Manteca, for construction of a 3,811' sewer line in Manteca have been rejected. Bids will not be called again.
RM 4-19. Previous report 3-29

★DINING HALL, UTILITIES, SIDEWALKS **Mather AFB, Calif.**

Award to Baldwin Contracting Co., Box 311, Marysville, $402,188, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for construction of Airmen Dining Hall No. 3, site grading, sidewalks, curbs and gutters, utility lines, fuel oil storage tank, et al, at Mather Air Force Base, Mather Field, Calif. ENG-04-167-58-29.
RM 4-19. Previous report 3-29

●STORM DRAINAGE— **Mather AFB, Calif.**

Bids will be opened 2 p.m., May 6, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for construction of underground storm drainage facilities, consisting of 8'x5'x750' reinforced concrete box culvert and related items; relocation of existing underground utilities; new communications ducts (blank); relocation of 6" gas main at Mather Air Force Base, Mather Field, Calif.; ENG-04-167-58-40. Specifications with above address. Bid bond 20%. Completion time: 150 days. RM 4-19

●COMMUNICATIONS CABLE— **Moffett Field, Calif.**

(Estimated cost $38,000)

Bids will be opened 2 p.m., April 22, by 12th Naval District, in Room C-112, District Public Works Office, El Camino Real and San Bruno Aves., San Bruno, for installing two 51 Pair 22 A.W.G. communication cables between Bldg. No. 158 and Transmitter Bldg. No. 102, complete with steel conduits under pavement and repairing pavement damaged by construction work at Naval Air Station, Moffett Field, Calif.; Spec. No. 14095/57. Specifications with room B-106, above address. SF 4-19

STORM DRAINS— Oakdale, Calif.

Oakdale voters rejected a $150,000 bond issue for constructing storm drains at the regular municipal election April 8.
RC 4-19. Previous report 2-1

★FLOOD CONTROL— Oakland, Calif.

Award to McGuire and Hester, 796 66th Ave., Oakland, $204,000, by Alameda County Board of Supervisors, Court House, Oakland, for flood control work in the Sulphur Creek area, near Hayward. A one-mile channel will be evacuated from Hesperian Blvd. to Amador St. to carry off excess flood waters. RC 4-19

▲STORM SEWERS— Oakland, Calif.

Bids received by Alameda County Board of Supervisors, Court House, Oakland, for storm sewers for the Hillcrest Knolls area of Eden township, Alameda County. Bids opened April 8. LOW BIDS: Prodanovich, Inc., 750 81st Ave. Oakland, $27,847; A. J. Peters & Son, 534 Stockton Ave., San Jose, $38,221; Galbraith Construction, 995 Blossom Way, Hayward, $39,362.
RM 4-10. Previous report 3-22

▲SITE PREPARATION— Oakland, Calif.

Bids received by Oakland Park Commission, 634 14th St., Oakland, for construction of Lakeside Park Garden Center basement, foundation and utilities, Lakeside Park, Oakland. Bids opened April 1. LOW BIDS: F. O. Pearce Co., 54 Charles Hill Rd., Orinda, $55,000; Eric F. Anderson, Inc., 219 41st St., Oakland, $63,914; W. H. Wisheropp Co., 8301 Baldwin St., Oakland, $67,696. RM 4-19

●RAILROAD BRIDGE CONTROLS— **Oakland, Calif.**

Bids will be opened 2 p.m., April 30, by Corps of Engineers, 180 New Montgomery St., San Francisco, for centralization of controls, Fruitvale Ave. railroad lift bridge, Oakland Harbor, Calif.; CIVENG-04-203-58-16. Work involves furnishing and installing at the railroad bridge a closed circuit television camera, viewing screen, and remote controls for positioning of camera including highway bridge remote control circuits, using underwater construction for cables and underwater trenching for buried cables. Plans with district engineer, above address. Bid bond 20%. Completion time: 60 days
RM 4-19

●COPPER WATER TUBING— **Oakland, Calif.**

Bids will be opened 2 p.m., April 25, by East Bay Municipal Utility District, 2130 Adeline St., Oakland, for furnishing 137,400' of copper water tubing; Prop. No. 2535. Specifications with Procurement Office, 2127 Adeline St., Oakland. RC 4-19

▲SCUM SEPARATION PIPING— **Oakland, Calif.**

Bids received April 11 by East Bay Municipal Utility District, 2130 Adeline St., Oakland, for installation of scum separation piping at the East Bay Sewage Treatment Plant; Spec. No. SD 97. LOW BIDS: R. M. Morrill Co., 999 Anthony St., Berkeley, $21,975; Oscar C. Holmes, Inc., 927 Arguello St., Redwood City, $23,140; S & Q Construction Co., 48 S. Linden Ave., South San Francisco, $23,333.
RM 4-19. Previous report 3-29

▲STREET IMPROVEMENT— **Oakland, Calif.**

Bids received April 10 by City Council, City Hall, Oakland, for improvement of Harrison St. between 20th St. and Grand Ave., 20th St. between Webster St. and Harrison St., and a portion of Lakeside Drive south of 20th St. in Oakland. LOW BIDS: Ransome Co., 4030 Hollis St., Emeryville, $197,130; Gallagher & Burk, Inc., 344 High St., Oakland, $197,426; O. C. Jones and Sons, 4th and Cedar Sts., Berkeley, $220,401.
RM 4-19. Previous report 3-29

●GRADING, DRAINAGE, FILL— **Redwood City, Calif.**

Bids will be reopened 2:30 p.m., April 30, by the Board of Trustees, Sequoia Union High School District, Redwood City, for construction of an athletic field, including demolition, grading and drainage, and placement of engineered fill at Woodside High School, located on the southeast side of Woodside Road, between Churchill Ave. and Alameda de las Pulgas, San Mateo County. Specifications with Delp W. Johnson, architect, 166 Geary St., San Francisco. $50 deposit. Bid bond, certified or cashier's check 10%. Bids previously opened on April 2 were rejected as too high.
RC 4-19. Previous report 4-12

●COATING STORAGE TANKS— **Richmond, Calif.**

(Estimated cost $76,000)

Bids will be opened 2 p.m., April 22, by 12th Naval District in Room C-112, District Public Works Office, El Camino Real and San Bruno Aves., San Bruno, for interior coating of steel storage tanks N1, N4, and concrete storage tank No. 4 at Naval Fuel Supply Depot, Point Molate, Richmond, Calif., for Naval Supply Depot, Oakland. Spec. No. 14187/57. Specifications with Room B-106, above address. SF 4-19

●CONCRETE RESERVOIR— **Richmond, Calif.**

Bids will be opened 2 p.m., May 9, by East Bay Municipal Utility District, 2130 Adeline St., Oakland, for construction of a one and one-half MG capacity prestressed concrete reservoir in Richmond, near the Mira Vista Country Club. Spec. No. 730. Specifications with Engineering Dept., above address. RC 4-19

▲STATE HIGHWAY PROJECTS— **Sacramento, Calif.**

Bids received April 16 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction.

III-NEV-17-A—Grade, surface about 7.3 mi. with plantmix surfacing on cement treated base and construct a reinforced concrete girder bridge, between Placer County line and 1.5 mi. south of Rattlesnake Creek, Nevada County.

LOW BIDS: Isbell Construction Co., Box 2351, Reno, Nev., $1,282,944; Edward Keehle, Route 4, Box 64, Tully Road, San Jose, $1,391,565; Gibbons & Reed Co., 825 W. 9th North, Salt Lake City, Utah, $1,395,801.

X-SOL-7-F,VAL—Prepare and plant about 4 acres at Carquinez Bridge, about 0.6 mi. between Toll Plaza and Vallejo Wye, Solano County.

LOW BIDS: Gordon Anderson, Sunnyvale, $9,034; Justice-Dunn Co., 1260 59th, Oakland, $12,060; Huett & Schromm, Inc., Box 798, Palo Alto, $13,000.

V-MON,SBT-2,10,56,118.22,119-VAR—Plantmix surface about 30.6 mi. over existing pavement at various locations, Monterey and San Benito counties.

ONLY BIDS: Granite Construction Co., Box 900 Watsonville, $187,878; Valley Paving and Construction Co. & Anton Doko, Box 6, Pismo Beach, $198,626.

IV-ALA,CC-105,107,108,226.14-VAR — Plantmix surface about 12.7 mi. over existing surfacing at various locations in Alameda and Contra Costa counties.

LOW BIDS: Lee J. Immel, 3030 San Pablo Ave., San Pablo, $124,350; C & H Contractors, Inc., 1015 Market St., Richmond, $125,850; Gallagher & Burk, Inc., 344 High St., Oakland, $128,156.

IV-ALA-69-HAY—Construct a reinforced concrete pedestrian overcrossing across Rt. 68, between Tennyson Rd. and Rt. 105 in Hayward, Alameda County.

LOW BIDS: Dan Caputo Co., 650 Race, San Jose, $50,190; Gordon H. Ball, Gordon H. Ball, Inc., and Ball & Simpson, 685 Delaware, Berkeley, $52,781; Charles S. Moore, 2945 Redbush Terrace, San Jose, $56,826.

III-NEV-TRUCKEE MAINTENANCE STATION—Grade portion of yard area, construct 72" chain link fence, salvage and reconstruct portion of existing 72" chain link fence at Truckee Maintenance Station, Nevada County.

LOW BIDS: Ting & Merian, Marysville, $35,271; S. G. Voudouris, 1308 7th Ave., Sacramento, $42,628; Fredrickson & Watson and Ransome Co., 873 81st Ave., Oakland, $45,454.

III-NEV,SIE-83-A—Plantmix surface about 11 mi. over existing surfacing and apply fog seal coat, between 8.6 mi. north of Truckee and Little Truckee Summit, Nevada and Sierra counties.

LOW BIDS: Granite Construction Co., Box 900, Watsonville, $57,045; Clements Construction Co., Fresno, $57,100; Daniel Bayles, Jr., Box 367, Biggs, $60,050.

III-GLE-45-47-B,A—Clean and paint two bridges, across Sacramento River near Butte City, and across Stony Creek between Hamilton City and Orland, Glenn County.

LOW BIDS: Foss P. Collins, Box 117, La-Verne, $12,118; Orrell-Keefe Co., 2139 Linden, Oakland, $14,196; John P. McGuire, Route 4, Box 68, San Jose, $16,590.

II-TEH-86,83,29-A,C — Plantmix surface about 17 mi. on existing surfacing, between Mineral and Rt. 47, Tehama County.

LOW BIDS: Lester L. Rice & Sons, 235 Sumner St., Yuba City, $114,150; M. W. Brown, Box 827, Redding, $121,950; Healy Construction Co., 7350 Palmdale Blvd., Palmdale, $124,825.

IV-ALA-5-HAY—Widen and channelize about 0.4 mi. by grading and plantmix surfacing on cement treated base, constructing concrete islands, and installing a traffic signal system and highway lighting, in Hayward on Castro St. on Tennyson Rd., Alameda County.

LOW BIDS: Richmond Export Services, Inc., 2114 MacDonald Ave., Richmond, $60,478; Krull & Pacheaco, 107 Niles Road, Decoto, $60,949; Close Construction Co., 721 C St., Hayward, $63,337.

IV-SCL-115-A—Construct reinforced concrete bridge and approaches on Alum Rock Ave. at Silver Creek, Santa Clara County.

LOW BIDS: Edward Keeble, Route 4, Box 64, Tully Road, San Jose, $64,427; Bo-Son, Inc. & Western Builders, 840 Sutter, Palo Alto, $69,049; O. C. Jones & Sons, 1520 4th Berkeley, $69,668.

PB 4-19. Previous report 4-5

★SUBSTATION ASSEMBLY—
Sacramento, Calif.

Award to Collins Electrical Co., 611 W. Fremont St., Stockton, $58,233, by Sacramento Municipal Utility District, 59th and R, Sacramento, for the assembly of a 230/-115/69 kv. substation consisting of two steel towers, bus assembly structures, and miscellaneous pedestals; installing rigid and strain buses, disconnects, switches, potential transformers, line traps, capacitors, and lighting fixtures, et al.

PB 4-19. Previous report 4-5

●LEVEE, CHANNEL IMPROVEMENTS—
Sacramento, Calif.

Bids will be opened 2 p.m., May 6, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for channel improvement and levee construction, Little Chico Diversion and Butte Creek, from Durham-Oroville road upstream 4.3 mi., in Butte County, Calif.; CIVENG-04-167-58-12. Work includes: concrete diversion structure; diversion channel; two temporary highway detours; shoofly and railroad embankment; construct and enlarge levee; irrigation facilities; gaging facilities; stone protection; surface highway and levee; and construct road turnarounds. Specifications with district engineer, above address. Bid bond 20%. Completion time: 165 days.

Quantities: 153,000 c.y. excavation; 580,000 c.y. levee, railroad and highway embankment; 35,000 ton riprap; 1,170 c.y. concrete; 15,000 ton crushed mineral aggregate.

RM 4-19

★STATE HIGHWAY PROJECT—
Sacramento, Calif.

Award announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids were opened March 26.

IV-ALA,CC-69,7,ALB,RCH—Grade and surface about 2.5 mi. with plantmix surfacing on untreated base and cement treated base, portland cement concrete on cement treated subgrade, widen a bridge and construct three bridges, a freeway together with frontage roads between 0.3 mi. south of El Cerrito overhead in Albany and Jefferson Ave. in Richmond, Alameda and Contra Costa counties. AWARD: Piombo Construction Co., Box 935, San Carlos; M & K Corp., 519 California St., San Francisco; and Connolly-Pacific Co., 1925 W. Water St., Long Beach, joint venture, $5,169,810.

PB 4-19. Previous report 3-29

▲RESERVOIR ROOF AND LINING—
San Francisco, Calif.

Bids received by San Francisco Public Utilities Commission, Room 287, City Hall, San Francisco, for lining and roofing the new 87,500,000-gal. Sunset Reservoir, bounded by Pacheco and Quintara Sts. and 24th and 28th Aves. San Francisco Water Dept. Spec. No. 806. Bids opened April 10. LOW BIDS: Fruin-Colnon Contracting Co., 48 Park Rd., Burlingame, $2,154,243; H & K Corporation, 519 California St., San Francisco, $2,218,360; Dan Caputo Co., 650 Race St., San Jose, $2,272,037.

RM 4-19. Previous report 3-22

▲WATER MAINS— San Francisco, Calif.

Bids received by San Francisco Public Utilities Commission, Room 287, City Hall, San Francisco, for laying 12" cast iron mains in Ninth Ave. between California and Fulton Sts. and in California St. between 23rd and 29th Aves.; San Francisco Water Dept. Spec. No. 836. Bids opened April 10. LOW BIDS: Michael Murphy Jr., 308 Upper Terrace, San Francisco, $73,658; Fred T. Fairey, 1874 25th Ave., San Francisco, $74,323; Louis L. Cima, 1217 S. Down Rd., Hillsbourough, $80,731. SF 4-19

●GRADING, STORM DRAINAGE, PAVING
San Francisco, Calif.
(Estimated cost $125,000)

Bids will be opened 2 p.m., April 23, by 12th Naval District in Room C-112, District Public Works Office, El Camino Real and San Bruno Aves., San Bruno, for grading, paving, and a storm collection system on Regunning Pier at San Francisco Naval Shipyard; Spec. No. 14234/58. Specifications with Room B-106, above address. SF 4-19

SWIMMING POOL— Santa Rosa, Calif.

A $200,000 bond issue for a municipal swimming pool has been passed by Santa Rosa voters. RC 4-19

▲GRADING, PAVING, SEWERS—
South San Francisco, Calif.

Bids received by City Council, City Hall, South San Francisco, for grading and construction of paving, curbs, gutters, sidewalks, storm drains, sanitary sewers, street lighting system, fire alarm system, erosion control planting, street signs and engineer's monuments in Pineview Crest, South San Francisco; Res. 2597. Bids opened April 7.

LOW BIDS: McCammon-Wunderlich Co., Box 359, Palo Alto, $160,345; L. C. Smith Co., Box 610, San Mateo, $165,360; A. Dale Williams, 299 Bel Mar, Daly City, $166,182.

BY 4-19

●CONVERSION-PAVING—
Travis AFB, Calif.

Bids will be opened 2 p.m., April 22, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for construction of Conversion-Paving at the Elmira T-10 Launcher area, north of Travis Air Force Base, Solano County, Calif.; ENG-04-167-59-39. Work includes: removal and disposal; excavation of unsuitable material adjacent to Launcher structures, backfill, grading and drainage facilities; concrete paving; electrical distribution system and communications duct. Specifications with above address. Bid bond 20%. Completion time: 140 days.

Quantities: 14,300 c.y. excavation; 4,445 ton stabilized aggregate base course; 2,750 c.y. select material subbase course; 9,870 c.y. select cohesionless fill; 700 c.y. embankment; 580 c.y. portland cement concrete pavement; 870 bbl. portland cement. RM 4-19

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Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

JUNIOR HIGH SCHOOL
BIDS CLOSE 8 P.M., APRIL 30
Anchorage, Alaska
NOTICE TO CONTRACTORS

March 28, 1958; Sealed bids in duplicate for the construction of the Orah Dee Clark Junior High School, Anchorage, Alaska, will be received at the office of the Superintendent, Anchorage Independent School District, Administration Building, 1602 Hillcrest Drive, Spenard, Anchorage, Alaska until April 30, 1958 at 8 p.m. and then at said office, publicly opened and read aloud.

The School District reserves the right to waive any informality in, or to reject any or all bids.

ANCHORAGE INDEPENDENT SCHOOL DISTRICT
By Alex Dunham, Clerk of Board

Contract documents including plans and specifications are on file at the office of the Superintendent, Administration Building, 1602 Hillcrest Drive, Spenard Branch, Anchorage, Alaska; the Associated General Contractors of America, Central Building, Anchorage, Alaska; the Associated General Contractors of America in the Construction Center, 215 Harrison, Seattle 99, Washington, and the Plan Bureau, 2413 Western Avenue, Seattle, Washington.

Copies of the documents may be obtained by depositing $35.00 with the Associated General Contractors, Seattle, or Edwin B. Crittenden, Architect, and Associates, 835 9th Avenue, Anchorage, Alaska.

A certified check or bank draft, payable to the Anchorage Independent School District, or a satisfactory bid bond executed by the bidder in an amount equal to five percent (5%) of the base bid shall be submitted with each bid as a guarantee of fulfillment.

The successful bidder will be required to furnish and pay for a satisfactory performance and payment bond or bonds totalling 100% of the bid.

No bid shall be withdrawn for a period of 30 days subsequent to the opening of bids without the consent of the School District.

6090—3-12, 19, 26

SUB CONTRACT BIDS
BIDS CLOSE APRIL 30
Great Falls, Montana
NOTICE TO CONTRACTORS

Lowe-Riedesel Construction Co., P.O. Box 1956, Billings, Mont. will receive subcontract bids by April 30 in connection with the construction of OPS and Power Buildings and Associated Facilities for SAGE Technical Facilities at Malmstrom Air Force Base near Great Falls, Mont.

6093—4-12

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., APRIL 24
Helena, Montana
NOTICE TO CONTRACTORS
INVITATION FOR BIDS
STATE HIGHWAY COMMISSION
Helena, Montana

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 a.m. on April 24, 1958. The proposals will be publicly opened and read immediately thereafter. YOUR ATTENTION IS DIRECTED TO THE 9:00 A. M. HOUR SET FOR THE OPENING OF BIDS IN THE AUDITORIUM OF THE STATE HIGHWAY DEPARTMENT BUILDING.

1. **I-ING 90-8(6)441** — Construction of one 457.0' concrete highway overpass over the Northern Pacific Railway and Interstate Highway No. 10; one 133.0' concrete bridge and three 153.0' concrete bridges, all of which are over Canyon Creek; three 81.5' concrete bridges over Hogan Slough and the approaches, including small drainage structures for all of the above-mentioned structures on the Billings Southside-East and West Road in Yellowstone County, involving about 123,163 cu. yds. excavation; 1,460 cu. yds. riprap; 84,614 mi. yds. overhaul; 1,846 M gals. watering; 246 units rolling; 424 lin. ft. corrugated metal pipe; all lump sum remove two existing structures and maintain traffic; all lump sum maintaining traffic (for one structure); 270 lin. ft. steel beam bridge rail; 2,314 lin. ft. steel bridge rail; 289,953 lbs. reinforcing steel; 2,016.60 cu. yds. concrete; 1,935 cu. yds. structure excavation; 12,045.5 lin. ft. driving treated timber piles; 12,402 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles (for all structures); 6,650 lin. ft. precast prestressed concrete beams; 324 lin. ft. prebored holes for piles; and other items. Project to be completed by June 30, 1959.

2. **I-117(10)U2** — Grade, aggregate surfacing, plant-mix surfacing, and drain 4.029 miles on the Livingston-Big Timber Road in Park County, involving about 986,966 cu. yds. excavation; 1,047 cu. yds. aggregate backfill; 405,997 mi. yds. overhaul; 118,113 tons crushed aggregate; 20,843 tons uncrushed aggregate; 17,517 M gals. watering; 2,626 units rolling; 192 tons cutback asphalt; 161 tons emulsified asphalt; 396 lin. ft. corrugated metal pipe; 356 lin. ft. structural plate pipe; 1,282 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 12,529 lin. ft. guard rail; 48 hours watering; 2,853 rods wire fence; 4 each stock guard; 44 lin. ft. jiggle bars; 1,450 tons asphalt cement; 26,195 tons plant mix; 18,239 lin. ft. median concrete curb; 52 each metal fence panels; and other items. Project to be completed in 300 calendar days.

3. **F 130(15)U2** — Construction of two concrete bridges over Seven Mile Creek and two concrete bridges over Dry Creek on the Terry-Glendive Road in Dawson County, involving about all lump sum remove existing structure and maintain traffic on two bridges; 950 lin. ft. steel bridge rail; 237,934 lbs. reinforcing steel; 1,045.2 cu. yds. concrete and 1,605 cu. yds. structure excavation. Project to be completed by November 30, 1958.

4. **F 333(15)U3** — Grade, selected surfacing, and drain 4.517 miles on the Grass Range-Malta Road in Fergus County, involving about 953,654 cu. yds. excavation; 7,235 cu. yds. riprap; 100 cu. yds. aggregate backfill; 340,817 mi. yds. overhaul; 42,414 cu. yds. selected surfacing; 15,572 M gals. watering; 2,161 units rolling; 648 lin. ft. corrugated metal pipe; 100 lin. ft. relay-pipe culverts; and other items. Project to be completed in 180 calendar days.

5. **F 333(16)U2** — Grade and drain 2.517 miles on the Grass Range-Malta Road in Phillips County, involving about 1,806,141 cu. yds. excavation; 2,413 cu. yds. aggregate backfill; 522,760 mi. yds. overhaul; 15,891 M gals. watering; 2,119 units rolling; 1,458 lin. ft. corrugated metal pipe; 100 lin. ft. relay-pipe culverts; and other items. Project to be completed in 200 calendar days.

6. **F 391(8)** — Grade, soil cement stabilized base, bituminous surface treatment, and drain 9.035 miles on the Circle-Sidney Road in Dawson County, involving about 649,122 cu. yds. excavation; 1,049 cu. yds. aggregate backfill; 74,392 mi. yds. overhaul; 45,502 cu. yds. uncrushed aggregate; 2,446 tons crushed aggregate; 10,585 M gals. watering; 1,401 units rolling; 172 tons cutback asphalt; 241 tons emulsified asphalt; 2,484 lin. ft. corrugated metal pipe; 832 lin. ft. structural plate pipe; 100 lin. ft. relay pipe culverts; 97 hours watering; 23,953 barrels Portland cement; 181,003 sq. yds. processing and other items. Project to be completed in 220 Calendar Days.

7. **S 186(5)** — Aggregate surfacing and plant-mix surfacing of 10.136 miles on the Willis-Northwest Road in Park County, involving about 42,778 tons crushed aggregate; 53 hours watering; 818 M gals. watering; 316 units rolling; 203 tons cutback asphalt; 189 tons emulsified asphalt; 1,055 tons asphalt cement; 19,142 tons plant mix; and 50 each guide posts (concrete). Project to be completed in 90 calendar days.

The above-listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in this proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of the bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, Helena, Montana. Plans and specifications for all Federal-aid projects are also on file and may be examined in the offices of the Bureau of Public Roads, Missoula.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer

6092—4-12, 19

EARTH, CONCRETE DAMS; PUMPHOUSE
BIDS CLOSE 10 A.M., P.S.T., MAY 1
Teton County, Montana
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sports Fisheries and Wildlife, The Interior Building, 1002 N.E. Lloyd Blvd., P. O. Box 3737, Portland 8, Oregon. Telephone: BEImont 4-3261, Extension 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T., May 1, 1958, and then publicly opened, for the construction of an earth embankment dam, reinforced concrete dam and reinforced concrete pumphouse, hoist and allied appurtenances at the Benton Lake National Wildlife Refuge on Muddy Creek, Teton County, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

6097—4-16, 23

RESIDENCE, ROADWAYS, PIPELINES
BIDS CLOSE 10 A.M., P.S.T., APRIL 23
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P. O. Box 4136, Portland 8, Oregon, until 10:00 A.M. Pacific Standard time, Wednesday, April 23, 1958, for the CONSTRUCTION OF ONE RESIDENCE, ROADWAYS AND PIPELINES, at the Oak Springs Hatchery near Maupin, Oregon, and will then and there be opened and publicly read aloud. Bids received after the time fixed for opening the same will not be considered.

Plans, Specifications and Forms of Contract documents may be obtained at the office of the Oregon State Game Commission at 1634 Alder Street, Portland 8, Oregon.

All contractors shall comply with all state laws pertaining to the qualification of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342 inclusive.

Each proposal shall be made out on

Form of Proposal contained in the contract documents and shall be acompanied by a certified check or bid bond made payable to the Oregon State Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal.

The Oregon State Game Commission reserves the right to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening unless said award is delayed for a period exceeding 30 days.

OREGON STATE GAME COMMISSION
By. P. W. Schneider, Director
1634 S.W. Alder Street
P. O. Box 4136
Portland 8, Oregon

6091—4-8, 9, 10

STORAGE BUILDING
BIDS CLOSE 10 A.M., P.S.T., APRIL 30
Kalispell, Montana
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries & Wildlife, The Interior Building, 1001 N.E. Lloyd Blvd., P. O. Box 3737, Portland 8, Oregon. Telephone: BElmont 4-3361, Extension 243. Sealed bids will be received in this office until 10:00 A.M., P.S.T., April 30, 1958, and then publicly opened, for furnishing all equipment, materials, supplies and labor required to construct a frame shop and vehicle storage building at The Creston Fish-cultural Station, Kalispell, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

6098—4-15, 22

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., APRIL 29
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, April 29, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items nos. 1 to 4 inclusive.

The improvements for which bids will be received follow:

1. Constructing Two Reinforced Concrete Box Girder Bridges on 0.046 mile of Primary State Highway No. 1 in Clark County, SALMON CREEK INTERCHANGE-A-LINE OVERCROSSING, FAP No. I-5-1(15)7, involving about 377 cubic yards of Concrete, 52,000 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 1,150 cubic yards of Concrete and 328,000 pounds of Steel Reinforcing Bars), 942 linear feet of Standard Bridge Railing, 11,000 linear feet of Treated Timber Piling and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Clearing, Draining, Grading and Surfacing on 5.250 miles of a Jefferson County Foad, CHIMACUM-CENTER ROAD, FAS No. S-0496(1) and State and County Projects, involving about 60,150 cubic yards of Unclassified Excavation, 45,280 cubic yards of Selected Roadway Borrow, 6,960 cubic yards of Screened Gravel Surfacing, 1,533 linear feet of Concrete Pipe, 117 linear feet of Metal Pipe, 60 linear feet of Iron Pipe, 25 cubic yards of Riprap and other items.
3. Constructing Bituminous Surface Treatment and Bituminous Road Mix on 13.745 miles of Walla Walla County Roads, MOJONNIER ROAD, ET AL, FAS Nos. S-0636 (4), S-1140(1) and S-0638(1), involving about 629 tons of Asphalt Cement, 6,695 cubic yards of Crushed Cover Stone and Mineral Aggregate, 4,531 linear feet of Beam Guard Rail and other items.
4. Clearing, Draining, Grading and Surfacing on 1.017 miles of County Road No. 10 in Clark County, VENERSBORG VICINITY, FAS No. S-0594(2), involving about 13,180 cubic yards of Common Excavation, 9,650 cubic yards of Solid Rock Excavation, 9,580 tons of Ballast and Crushed Surfacing, 459 linear feet of Concrete Pipe, 84 linear feet of Metal Pipe and other items.
5. Surfacing, Constructing Bituminous Surface Treatment and Stockpiling Crushed Surfacing, Ballast, Maintenance Rock and Mineral Aggregates on 2.724 miles of Secondary State Highway No. 3-L in Columbia County, TURNER TO KINGS RANCH, a State Project, involving about 29,475 tons of Crushed Surfacing, Mineral Aggregates, Crushed Cover Stone, Ballast and Maintenance Rock, 84 tons of Asphalt Cement and other items.
6. Paving with Asphaltic Concrete on 1.936 miles of Primary State Highway No. 15 in Snohomish County, SNOHOMISH TO HALFORD, a State Project, involving about 560 cubic yards of Crushed Surfacing, 11 tons of Asphalt Cement, 2,250 tons of Asphaltic Concrete and other items.
7. Stockpiling Crushed Surfacing, Maintenance Rock and Mineral Aggregates on State Highways Nos. 4, 4-C and 11-B in Lincoln and Whitman Counties, PSH NO. 2 TO LAKE ROOSEVELT, ET AL, a State Proqject, involving about 3,500 cubic yards of Stripping Quarries and Pits and 66,900 tons of Crushed Materials.
8. Stockpiling Crushed Surfacing and Mineral Aggregates on Secondary State Highway No. 9-A in Clallam County, TWIN VICINITY—STOCKPILING, a State Project, involving about 13,600 tons of Crushed Surfacing and Mineral Aggregates.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

6094—4-12, 19

STORAGE BUILDING, WATER CONTROL STRUCTURES
BIDS CLOSE 10 A.M., P.S.T., APRIL 29
Colville, Washington
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, The Interior Building, 1001 N.E. Lloyd Blvd., P. O. Box 3737, Portland 8, Oregon. Telephone: BElmont 4-3361, Extension 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T. April 29, 1958, and then publicly opened, for the construction of one masonry paint and oil storage building, and two concrete water control structures at the Little Pend Oreille National Wildlife Refuge, near Colville, Washington. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.

6096—4-15, 22

DRAINS, WASTEWAYS
BIDS CLOSE 10 A.M., P.S.T., MAY 8
Ephrata, Washington
NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, April 11, 1958. Sealed bids, in single, (Specifications No. 117C-508) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division Avenue and C street N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, May 8, 1958, and then publicly opened for furnishing labor and materials and performing all work for construction of Additional Drains and Wasteway Blocks 72, 74 and 75 and Additional Delivery Facilities Block 79. This work will include 162,000 cu. yds. excavation; 2,000 cu. yds. backfill, part compacted or puddled; 35 cu. yds. riprap; 20 cu. yds. gravel bedding; 110 cu. yds. coarse gravel; 20 lin. ft. 18-inch diameter standard-strength reinforced-concrete culvert pipe; 66 lin. feet, 36-inch diameter extra strength reinforced-concrete culvert pipe; 744 lin. ft. 12-inch and 18-inch diameter, No. 16 gage corrugated-metal pipe; 310 lin. ft. 24-inch and 30-inch diameter, No. 14 gage, corrugated-metal pipe; and 66 lin. ft. 30-inch diameter, No. 14 gage, asbestos-bonded corrugated-metal pipe. Time allowed for completion will be 40, 60 and 300 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P. O. Box 368, Ephrata, Washington.

6103—4-19

IRRIGATION AND DOMESTIC WATER SYSTEMS
BIDS CLOSE 2 P.M., P.S.T., APRIL 30
Near Carson, Washington
NOTICE TO CONTRACTORS

Sealed bids for furnishing and installation of irrigation and domestic water systems including pumps and pump houses at the Hemlock Ranger Station approx. 10 miles north of Carson, Washington, on the Gifford Pinchot National Forest, will be received until 2:00 p.m., P.S.T., April 30, 1958, by the Regional Supply Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, 801 W. 8th St., Vancouver, Wash.

6099—4-12

DOCK, PORT FACILITY
BIDS CLOSE 2 P.M., A.S.T., MAY 29
Anchorage, Alaska
NOTICE TO CONTRACTORS

The City of Anchorage invites bids for the construction of a 600 ft. dock and port facility, consisting of a concrete deck on steel piling, railroad trestle and highway approaches, dredging, and two 40-ton and two 5-ton level-luffing cranes, at Anchorage, Alaska. Bids will be received by the City Manager until 2:00 p.m. Alaska Standard Time, May 29, 1958, at which time bids will be publicly opened.

Plans, specifications, and bid documents will be obtainable on or after April 18, 1958, at the office of the City Purchasing Agent, First Avenue and Post Road, (mailing address Box 400), Anchorage, Alaska, or at the engineering office of Tippetts-Abbett-McCarthy-Stratton, 62 West 47th Street, New York 36, New York. A deposit of $50.00 will be required for documents, of which $25.00 will refunded provided documents are returned in good condition prior to July 1, 1958.

The City reserves the right to reject any or all bids, and to waive informalities in the bids.

CITY OF ANCHORAGE
By George C. Shannon,
City Manager.

6101—4-19, 26; 5-3

KENAI PENINSULA SCHOOLS
BIDS CLOSE 10 A.M., P.S.T., MAY 21
Juneau, Alaska
NOTICE TO CONTRACTORS

Reference, Project Aaa. 50-A-315, Tustumena and Anchor Point Schools, Kenai Peninsula, Alaska. Date, April 11, 1958. Name and location of project: Tustumena and Anchor Point Schools, Project Aaa. 50-A-315, Kenai Peninsula, Alaska. Department or agency, Alaska Public Works, Office of Territories, Department of the Interior, By (issuing office), Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard Time May 21, 1958, in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Infor-

documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621 Interior Bldg., Washington 25, D.C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 W. Harrison St., Seattle, Wash.; Mountain Chapter, 220 W. Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-315, Tustumena and Anchor Point Schools, Kenai Peninsula, Alaska. The construction of two 3-classroom elementary schools of frame construction. Alternates are provided for extra classrooms and covered play areas. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
6102—4-19, 26; 5-3

TRASHRACKS AND SUPPORT
BIDS CLOSE MAY 8
Trinity Dam, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-5036) SET ASIDE FOR SMALL BUSINESS, will be received at Denver, Colorado, until May 8, 1958, for furnishing one hundred twelve (112) trashracks, and trashrack support for outlet works and auxiliary outlet works at Trinity Dam, Central Valley Project, California. Delivery is desired within 210 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6076—4-5

COLLEGE BUILDING
BIDS CLOSE 10 A.M., P.S.T., APRIL 23
Juneau, Alaska
NOTICE TO CONTRACTORS

Project Aaa. 50-A-298, Composite Building, College, Alaska. February 26, 1958. COMPOSITE BUILDING, University of Alaska, Project Aaa. 50-A-298 College, Alaska. Alaska Public Works, Office of Territories, Department of the Interior, By (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time April 23, 1958. in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P.O. Box 1181, Juneau, Alaska and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specification and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621 Interior Bldg., Washington 25, D. C.; at the Area Engineer's Office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-298, Composite Building, College, Alaska. The construction of a four-story reinforced concrete building designed for college use. The total floor area is approximately 78,000 sq. ft. Additive Alternates are provided for equipment and utilities. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
6058—3-8, 15, 22

HIGH SCHOOL
BIDS CLOSE 10 A.M., P.S.T., APRIL 23
Juneau, Alaska
NOTICE TO CONTRACTORS

Invitation for bids, (construction contract) reference: Project Aaa. 50-A-235, High School, Dillingham, Alaska. Date: March 7, 1958. Name and location of project: DILLINGHAM HIGH SCHOOL Project Aaa. 50-A-235, Dillingham, Alaska. Department or Agency: Alaska Public Works, Offices of Territories, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10 A.M. Pacific Standard Time April 23, 1958 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska. and then **publicly** opened and read aloud. **Information regarding bidding material, bid guarantee, and bonds follows:** Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621, Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Oregon; the Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within twenty (20) days from date of bid opening.** Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: Project Aaa. 50-A-235, High School, Dillingham, Alaska. The construction of a one-story steel and frame high school building containing approximately 13,500 sq. ft. of floor area. Alternates are provided for two extra classrooms and a shop. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
6066—3-15, 22, 29

12 UNIT APARTMENT BUILDING No. 2
BIDS CLOSE 4 P.M., APRIL 21
College, Alaska
NOTICE TO CONTRACTORS

Sealed bids in duplicate for the construction of the 12-unit Apartment Building No. 2, College, Alaska, will be received at the office of the President, University of Alaska, College, Alaska, until April 21, 1958, at 4:30 P.M. and then at said office, publicly opened and read aloud.

The University reserves the right to waive any informality in, or to reject any or all bids.

UNIVERSITY OF ALASKA
By s/Ernest Patty
Ernest Patty, President

Contract documents, including plans and specifications, are on file at the office of the University Engineer, College, Alaska, the Associated General Contractors of America, Central Building, Anchorage; the Associated General Contractors of America in the Construction Center, 215 Harrison, Seattle 99, Washington, and the Plan Bureau, 2413 Western Avenue, Seattle, Washington.

Copies of the documents may be obtained by depositing $35.00 with the Associated General Contractors, Seattle; Edwin B. Crittenden, Architect, and Associates, P.O. Box 238, 1565 "F" Street, Anchorage, Alaska, or the University Engineer, University of Alaska, College, Alaska.

A certified check or bank draft, payable to the University of Alaska, or a satisfactory bid bond executed by the bidder in an amount equal to five per cent (5%) of each base bid shall be submitted with each bid as a guarantee of fulfillment.

The successful bidder will be required to furnish and pay for a satisfactory performance and payment bond or bonds totalling 100% of the bid.

No bid shall be withdrawn for a period of thirty (30) days subsequent to the opening of bids without the consent of the University of Alaska.
6068—3-22, 29; 4-5

STEEL OR PRESTRESSED CONCRETE TANKS
BIDS CLOSE MAY 1
Oak View, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-4978) will be received at Oak View, California, until May 1, 1958, for furnishing labor and materials for Steel or Prestressed Concrete Tanks for Oak View, Villanova, Ojai East, Upper Ojai, and Rincon Reservoirs, California, Ventura River Project. Location Ventura, California, in Ventura County. Principal items are 83,500 cu. yds. excavation; furnishing and erecting 6 steel or prestressed concrete tanks; and other work. The tanks vary from 250,000 to 3,500,000 gallons in capacity. The work is divided into 12 schedules (6 alternates). Completion time 360 days. For particulars, address Bureau of Reclamation, P.O. Box 97, Oak View, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6072—3-29

School of Architecture & Allied Arts
MAY 2 6 1958

pacific architect and builder

STRESSING
A STRUCTURAL TRIUMPH

Prestressed 'Incor' Structural Members Frame 72,000 Sq. Ft. of New Sanitary Food Plant

• Sanitation and cleanliness are of paramount importance in food processing. How better can these essentials be obtained than with precast, prestressed concrete!

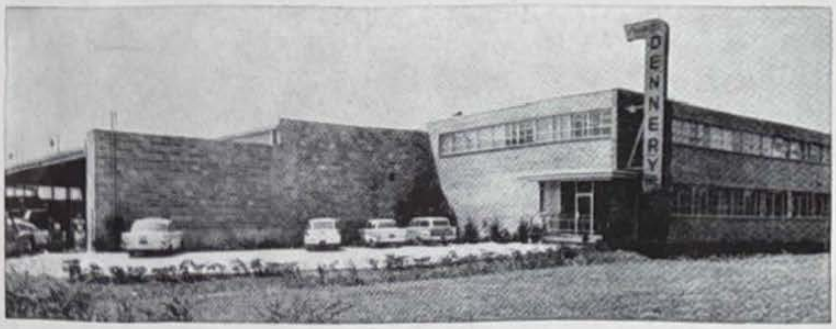
Versatile concrete provides wide-open floor space and streamlined smooth surfaces that keep that new look, and are easy to clean.

Other important advantages inherent in prestressed concrete are low-cost maintenance, economy of erection, and flexibility for expansion through a variety of shapes, sizes, and weights made to order at no premium cost. The bright, light, functionally attractive structures of prestressed concrete are also corrosion-proof, fire-safe and durable—designed for today's needs, yet built for the years ahead.

Noteworthy is this large modern structure which houses the multiple food processing facilities of Charles Dennery, Inc. in Jefferson Parish, Louisiana. Covering 72,000 square feet, the well-designed building contains the plant's varied operations—converting raw materials into packaged food products.

Beams, girders, purlins, and columns were supplied and erected by Belden Concrete Products, Inc. of New Orleans. A quick start and early completion were obtained using 'Incor'*, making possible assembly-line production, fast stripping and re-use of forms—advantages always assured with America's FIRST high early strength portland cement.

*Reg. U.S. Pat. Off.



FOOD PROCESSING PLANT
WAREHOUSE AND OFFICE BUILDING
Jefferson Parish, Louisiana

Owner: **CHARLES DENNERY, INC.**

Architect: **AUGUST PEREZ & ASSOCIATES**

General Contractor
LIONEL F. FAVRET CO., INC.

Prestressed Units Supplied and Erected by:
BELDEN CONCRETE PRODUCTS, INC.
All of New Orleans, Louisiana

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THE ENTIRE CONSTRUCTION FIELD

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pa&b
Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 5 MAY 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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THE COVER

St. Elizabeth's Episcopal Church, Burien Wash. Durham, Anderson & Freed, Architects; Art Hupy photo.

BUILDING PERMITS

April's $222 million is slight drop

Building permit volume for the five western states in April slid back to $222,258,347, a drop of $10¼ million from the same period last year. However, only California showed a decrease, $38 million. Oregon picked up $23¾ million, due primarily to a single $21.3 million permit for the Lloyd Center in Portland. Washington was up $2¼ million; Idaho, $1½ million; and Montana, $75,000.

Compared to the previous month, the dollar volume for the five states dropped $27¼ million. Here again California was responsible, with a $55¼ million loss. All other states showed good increases over March.

The dollar volume for the first four months of 1958 stands at $823,320,787, an increase of $26¼ million over the corresponding period in 1957. Biggest increase is in Oregon, up $22¾ million. Four-month tabulation by states:

	Jan.-Apr. 1958	Jan.-Apr. 1957
Calif.	$653,477,234	$656,562,543
Ore.	60,671,150	37,823,965
Wash.	94,731,013	87,329,972
Mont.	6,370,048	8,859,394
Idaho	8,071,342	6,464,175

ANALYSIS OF TYPICAL AREAS — APRIL

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	81	$ 1,403,385	27	$23,878,590	1	$503,000
King County	571	6,632,990	54	559,000	7	709,500
Seattle	559	4,860,153	157	2,891,120	2	92,000
Tacoma	135	672,880	30	164,465	1	6,000
Los Angeles County	1974	18,157,196	309	2,891,350	24	732,440
Orange County	142	1,809,785	31	175,775	3	81,700
Sacramento County	620	5,323,131	55	760,761	4	141,485

Building Permit Totals for 116 Western Agencies for April

CALIFORNIA	Apr. 1958	Mar. 1958	Apr. 1957
Alameda County	$ 1,401,750	$ 1,075,200	$ 2,066,050
Anaheim	5,132,236	3,998,897	3,407,609
Bakersfield	786,488	601,935	710,925
Burbank	1,231,742	643,930	1,198,635
Contra Costa County	2,536,542	2,791,774	2,283,932
Fresno	2,469,561	2,295,481	1,089,452
Fullerton	730,737	1,064,615	1,072,597
Glendale	1,902,669	1,319,298	1,561,323
Inglewood	756,127	926,399	590,745
Long Beach	5,854,520	7,106,745	8,859,808
Los Angeles	42,613,701	64,050,228	57,095,189
Los Angeles County	21,470,821	18,398,442	24,664,642
Oakland	3,627,342	30,790,556	2,979,426
Ontario	439,990	872,149	810,748
Orange County	2,376,911	4,443,392	5,743,660
Palo Alto	1,556,358	7,001,045	1,390,174
Pasadena	1,688,074	2,405,278	2,237,891
Pomona	696,774	1,592,201	837,515
Richmond	395,207	484,572	729,789
Riverside	3,824,477	1,087,832	1,066,261
Sacramento	2,658,109	1,711,695	2,824,550
Sacramento County	6,222,979	6,791,624	5,167,602
San Bernardino	3,685,377	1,486,814	1,258,719
San Bernardino County	4,355,851	5,065,483	9,090,746
San Diego	11,296,622	9,384,989	15,046,106
San Diego County	5,572,900	5,722,600	4,403,900
San Francisco	4,975,695	13,888,137	11,654,325
San Jose	4,305,631	4,023,278	9,147,945
San Mateo	968,756	687,823	862,651
San Mateo County	1,718,642	1,934,945	3,025,157
Santa Ana	2,422,652	688,998	962,201
Santa Monica	2,553,992	1,786,411	1,933,087
Stockton	957,918	603,954	1,120,111
Sunnyvale	1,548,836	1,238,510	4,417,580
Torrance	777,332	2,390,431	1,136,712
West Covina	415,010	869,760	1,470,965
TOTAL	$155,928,329	$211,225,421	$193,918,728

OREGON	Apr. 1958	Mar. 1958	Apr. 1957
Albany	$ 176,700	$ 75,300	$ 209,000
Astoria	58,768	3,575	22,610
Baker	203,325	59,300	188,030
Bend	60,175	277,509	110,921
Coos Bay	90,325	158,110	69,250
Corvallis	223,850	352,770	208,250
Eugene	852,400	465,145	1,091,608
Grants Pass	116,560	122,225	103,500
Gresham	134,470	82,200	49,875
Hillsboro	60,945	115,085	190,550
Klamath Falls	353,750	121,367	171,694
LaGrande	67,825	43,900	8,275
Lane County	822,051	1,152,674	925,737
Medford	1,012,554	406,958	282,275
Multnomah County	2,303,150	1,658,067	1,784,021
North Bend	33,910	30,175	31,825
Oregon City	33,700	35,875	71,900
Pendleton	165,045	105,425	108,120
Portland	26,079,260	5,212,865	4,058,400
Roseburg	123,385	44,489	15,574
Salem	904,991	411,456	307,620
Springfield	78,896	50,035	190,200
The Dalles	89,693	99,226	21,081
TOTAL	$ 34,045,728	$ 11,083,731	$ 10,220,316

WASHINGTON	Apr. 1958	Mar. 1958	Apr. 1957
Aberdeen	$ 86,026	$ 157,196	$ 82,227
Anacortes	68,450	89,400	193,635
Auburn	6,175	59,720	639,254
Bellingham	245,520	796,949	209,654
Bremerton	95,600	125,555	232,120
Centralia	30,805	110,045	55,727
Chehalis	13,451	19,960	156,718
Clarkston	119,060	48,060	43,698
Ellensburg	13,360	100,085	31,856
Ephrata	17,830	28,875	161,079
Everett	116,148	900,175	659,811
Kelso	37,600	46,100	53,500
Kennewick	198,935	29,620	127,789
King County	7,935,745	6,347,830	5,084,025
Kirkland	101,400	122,250	60,000
Longview	383,542	238,286	248,101
Moses Lake	148,838	58,739	71,946
Olympia	198,142	315,966	199,183
Pasco	62,685	659,360	152,410
Pierce County	1,838,995	1,089,453	2,238,107
Port Angeles	54,140	35,075	44,800
Puyallup	90,550	48,050	82,200
Ritzville	2,150	Nil	19,300
Seattle	8,005,713	6,920,114	5,462,250
Shelton	12,750	82,700	40,400
Spokane	1,697,807	1,264,529	2,196,210
Spokane County	1,766,662	1,572,046	2,266,254
Sumner	31,900	35,500	14,500
Tacoma	1,139,747	1,521,922	1,360,975
Vancouver	628,936	408,610	638,811
Walla Walla	99,135	64,750	73,780
Wenatchee	24,360	93,105	189,106
Yakima	331,370	265,340	302,880
TOTAL	$ 25,603,527	$ 23,655,365	$ 23,395,202

MONTANA	Apr. 1958	Mar. 1958	Apr. 1957
Billings	$ 280,500	$ 278,700	$ 685,100
Bozeman	150,500	45,500	105,500
Butte	49,950	15,814	79,035
Glasgow	332,174	45,900	20,178
Glendive	60,500	53,150	45,500
Great Falls	951,213	246,758	1,082,007
Helena	997,365	97,350	454,819
Kalispell	66,010	107,500	371,275
Lewistown	19,200	9,700	32,100
Livingston	98,800	10,800	69,348
Miles City	67,872	32,733	24,550
Missoula	153,200	106,880	183,912
TOTAL	$ 3,227,284	$ 1,050,785	$ 3,152,547

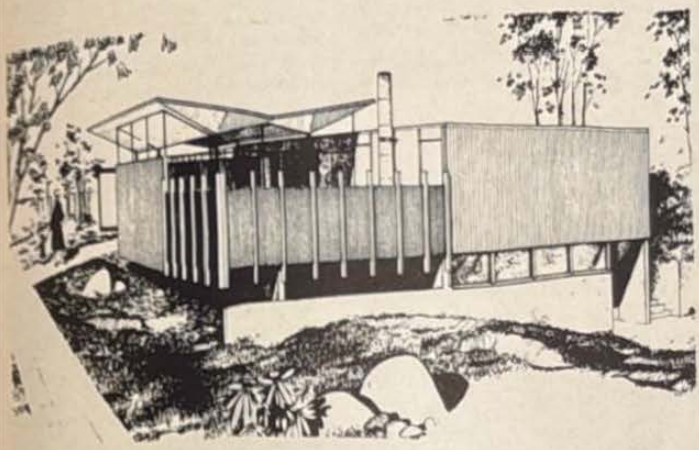
IDAHO	Apr. 1958	Mar. 1958	Apr. 1957
Boise	$ 406,251	$ 297,129	$ 399,606
Caldwell	35,820	28,165	61,300
Coeur d'Alene	253,950	117,920	87,059
Idaho Falls	1,861,000	1,030,020	536,200
Jerome	23,975	15,985	29,625
Lewiston	192,390	360,658	207,329
Nampa	112,350	190,340	122,650
Payette	30,525	17,400	20,950
Pocatello	226,568	177,203	229,175
Sandpoint	62,250	152,200	5,250
St. Maries	15,100	3,800	35,000
Twin Falls	233,300	210,185	149,935
TOTAL	$ 3,453,479	$ 2,601,005	$ 1,883,331

GRAND TOTAL	$222,258,347	$249,616,307	$232,570,474

PROJECT PREVIEW

COOPERATIVE APARTMENT

project, believed to be largest ever undertaken in southern California, will provide 256 units in 16 separate buildings on landscaped site overlooking Pacific Ocean and La Jolla Beach and Tennis Club. Of lift slab construction, each structure will be six stories, have three penthouses. Total cost: $8 million. Architects: John C. Lindsay & Associates.

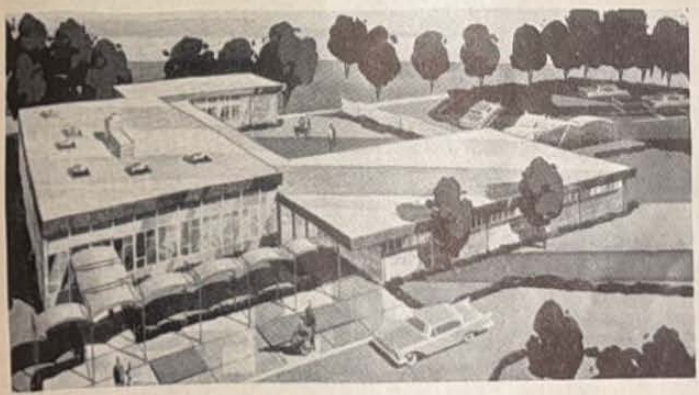


MEDICAL CENTER

to be shared by general practitioner, surgeon, dentist and pharmacist in Seattle will be frame building with stained cedar siding, translucent plastic panels and glass, have some 2,000 sq. ft. Self-supporting roof structure will dramatize reception area. Architect: Gene Zema; engineers: Stern & Towne.

CHURCH PLANT

for Unitarians in Sacramento has been designed outward rather than upward (main auditorium will be only 28 ft. high), reflecting principle of universal relationship with nature. Perforated pattern within walls will be obtained by using concrete block in hexagonal form—same basic shape of each building in master plan. Social hall and two religious education departments will be first units built. Architect: John Harvey Carter; structural engineer: Walter Constant.



REHABILITATION CENTER

in Great Falls, under sponsorship of Montana Society for Crippled Children and Adults, will be separated into three main areas: administration, medical-dental evaluation, speech and hearing, and dining; physical therapy and special education; occupational therapy and prevocational training. Building, to cost $320,000 when equipped, will feature ceramic tile facia, aluminum windows with marble chips on panels. Architects: Page & Werner.

JOB OF THE MONTH

LLOYD CENTER MODEL superimposed on Portland's central east side. Retail shops will form T, with Meier & Frank's at intersection of two malls. Structure in left corner is proposed medical-dental building; across Halladay Park (city owned) is now-being-built Sheraton Hotel and at its left, completed Interior Building. Boundry at right is Northeast Broadway. Exposition-Recreation Center will be located between Broadway Bridge (extreme right) and Steel Bridge (next to Broadway), this side of highway. Banfield Expressway goes through Sullivan's Gulch at left of Lloyd property.

56-block shopping center six minutes from down town

After eight years of planning, Portland's in-town Lloyd Shopping Center, which will be as large as any in the nation, is now set for construction, with contracts awarded thus far totaling $21.4 million. This figure does not include store fronts and outside finishes, which are expected to raise the total to $30 million, exclusive of land, tenant fixtures and stocks. The Sheraton Hotel, although on the center site, is being built as a separate project (for sketch, see PA&B, Jan. '58).

Designed by John Graham & Co., architects-engineers, the center will consist principally of four units, to be constructed by the following: Donald M. Drake Co., No. 1 (Meier & Frank department store and two multi-tenant buildings on the north mall), $7.7 million, and No. 3 (three-level J. J. Newberry Building and adjacent three-level buildings on the north mall plus one three-level and two two-level buildings on the west mall); $7.6 million; Max J. Kuney, No. 2 (three-level building for J. C. Penny and F. W. Woolworth plus two two-level adjacent multi-tenant buildings on the east mall), $5.3 million; and Henry M. Mason Co., No. 4 (Safeway Store on mall level with full basement), $700,000. Figures include subcontracts.

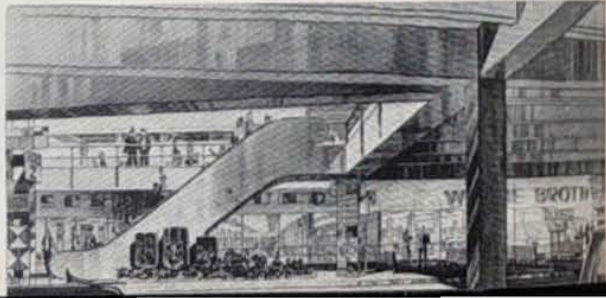
In addition to its sheer size, Lloyd Center will be noteworthy in a number of respects. Most significant perhaps is the fact that such a large site—56 square surface blocks and 34 square blocks of covered parking—is located so close to the heart of a city under a single ownership. Within six minutes' driving time of the west side downtown business area, it will be situated on the east side of the Willamette River, where 82% of the population lives.

The center is designed on the mall plan which the architects first developed for Seattle's Northgate Shopping City in 1950. The Portland project will have two rectangular groupings, each split by a mall, set in the shape of a huge T. Covered walks and balconies will protect shoppers from the weather. All structures will be of concrete, but faced with a variety of materials and colors. Exposed neon signs will be prohibited.

Parking for 8,500 cars will be provided on three levels: lower (entered from Multnomah Street), intermediate and mall deck. The first two levels will offer covered garage parking. Assisting in the planning have been Larry Smith & Co., real estate consultants, and Harland Bartholomew & Associates, traffic consultants.

LARGEST STRUCTURE in center will be Meier & Frank department store, occupying five full levels, with 300,000 sq. ft. of floor space, and designed to accommodate additional floors for expansion.

TWO LEVEL SHOPPING MALLS will be connected by escalators, will feature rest areas and planters. Lower level will be one of three providing parking for 8,500 cars. Divided into seven zones, each area will have its own basic color for shoppers' convenience.



THE BUILDING MONTH: BRIEFS

New York hotel architect William B. Tabler has received one of the 1958 Horatio Alger awards, based on a vote of college campus leaders across the country. Among his designs: the Statler Hilton in Los Angeles, the San Francisco Airport Inn (first of Hilton's horizontal hotels) and the proposed 1,000-room Hilton Hotel in the heart of the Bay city.

A proposed monorail installation for Seattle, which probably would link the business district with the Civic Center-World's Fair site, is being studied by transit and city officials. Meanwhile, in New Orleans the City Council has voted a conditional franchise for a 15-mile installation from Moisant International Airport to the Union Passenger Terminal.

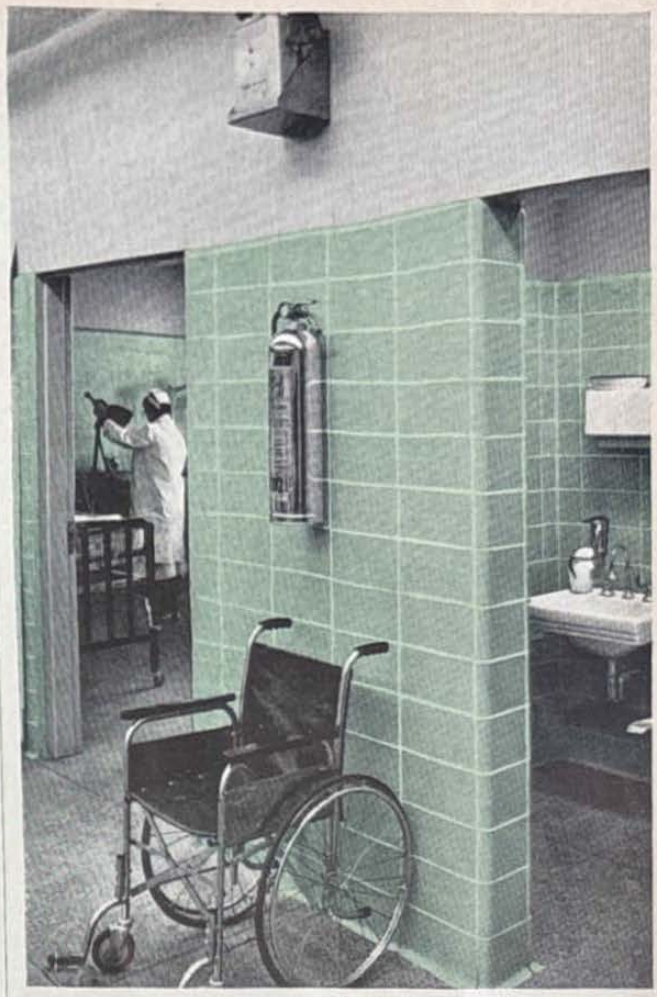
Ex-Portland architect Pietro Belluschi, principal speaker during weekend dedication activities for the new building of the University of Oregon's School of Architecture and Allied Arts on the Eugene campus, declared: "The seed of creativeness is in all of us and the proper environment will bring it out." The dean of the School of Architecture and Planning at Massachusetts Institute of Technology, went on to say that education is a process of using knowledge as much as gaining it and that "our job is to teach students to think."

The Hawaiian Islands comprised one of the brightest spots in the construction industry in the first quarter of 1958, with projects let for bid totaling $60,134,000, compared with $25,421,000 in the same period of 1957. The Bank of Hawaii reports: "Because of rain and stormy weather, construction put in place during the winter months was slightly below previous year levels. Hence, during the remainder of 1958 there will be increasing pressure on the industry for a speedup in construction."

Fourth Western Area Development Conference to be held in Vancouver, B.C., May 26-27, will bring together leaders from western Canada, the western states, Alaska and Hawaii to discuss "New Products and New Industries Through Research." Among the speakers: Dr. Robert J. Seidl, director of research, Simpson Timber Co., Seattle, discussing new wood products. Stanford Research Institute is the sponsor.

Portland will host the national convention of the American Society of Civil Engineers, June 23-27, whose program will include 16 papers on design and fabrication of timber construction for buildings and bridges and tours of lumber industry processing plants in Longview, Wash.

One of the nation's first jet age hangars is now in operation at Metropolitan Oakland International Airport. The $1,250,000 project has one of the world's largest cantilever spans providing 43,000 sq. ft. of unobstructed space to a height of 50 ft., which will clear the largest propeller aircraft now in service as well as jet transports. Designed by O'Neil & Long Associated, consulting engineers, the hangar was built by the Port of Oakland for lease to Aircraft Engineering and Maintenance Co. The port currently is undergoing a $17.5 million expansion at the airport to prepare for the jet age on recently completed fill extending a mile into the Bay.



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NEWS

AIA names keynoter for Cleveland

• Five Californians elected to fellowship

With the selection of Secretary of the Treasury Robert B. Anderson as keynoter, the program for the annual convention of the American Institute of Architects in Cleveland, July 7-11, is whipping into shape. Another headliner will be Dr. Margaret Mead, associate curator of ethnology at the American Museum of National History, who will discuss "The Anthropologist Looks at Architecture."

Secretary Anderson's opening address on Tuesday morning, July 8, will be followed by the architectural keynote speech of Philadelphia architect Vincent G. Kling. At luncheon that day Harland Hatcher, president of the University of Michigan, will speak on "The Western Reserve—Part of Our Heritage."

The convention program this year is geared toward providing a deeper understanding of the economic forces of the nation that are influencing environmental patterns, but panelists will also treat such practical matters as how to make better cost estimates, where to find construction money, developing today's building program and working with the home builder. Other seminars: urban planning, office organization, chapter affairs and professional status.

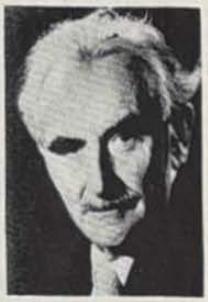
The Gold Medal will be awarded at the annual banquet July 10.

Fellows: Five of 20 members who have been elected to fellowship are from California. They are William Clement Ambrose, San Francisco, service to the institute; William L. Pereira, Los Angeles, design; John L. Rex, Los Angeles, design; Malcolm D. Reynolds, Oakland, service to the institute; and George Vernon Russell, Los Angeles, design. The six-man jury included Winchton L. Risley of Los Angeles.

Nominations: Among the nominees for the top five AIA posts (there are at least two for each position) is Henry L. Wright of Los Angeles, for second vice president, running against Austin W. Mather of Bridgeport, Conn., and Herbert C. Millkey of Atlanta. Other candidates: for president —John N. Richards of Toledo and Alexander C. Robinson 3rd of Cleveland for first vice president—Albert S. Golemon of Houston and Philip Will Jr. of Chicago; for secretary—Louie L. Scribner of Charlottesville, Va., and Edward L. Wilson of Fort Worth; for treasurer — Gerson T. Hirsch of Pleasantville, N.Y., and Raymond S. Kastendieck of Gary, Ind.

Citations for Neutra in Venice, Vienna

More laurels, this time citations from Venice and Vienna, have been bestowed upon Richard J. Neutra, who is celebrating his two-thirds of a century anniversary in 1958.



NEUTRA

The College of the Academicians of Venice, founded in 1750 and just recently reinstituted, has named the Los Angeles architect an honorary member. In notifying him of the selection, Bruno Zevi, rector of the college's architectural class, wrote: "I know that your creative genius does not need any formal recognition, as it is universally admired and respected. I am sure, however, that you will be so kind to accept this nomination as a sign of the devotion of humanistic Italy, as represented by one of the oldest and most glorious cultural institutions."

In Vienna the annual award for achievement in architecture has gone to Neutra, who was invited by the Academy of Fine Arts to personally receive the prize from the mayor during a May 17 presentation. In addition, the architect has been nominated as director of planning for the European cultural center.

Back home, the firm of Neutra & Alexander has been commissioned by the National Park Service to design the Shrine of the Nation, the Lincoln Memorial Building, on the grounds of the Battlefield of Gettysburg.

National honor for Warnecke

John Carl Warnecke of San Francisco is one of five architects elected to associate membership in the National Academy of Design. Others are Gordon Bunshaft and Francis B. Hoffman, both of New York; Richard Koch, New Orleans; and Roy F. Larson, Radnor, Pa.

FLLW has friends, foes in civic center feud

A contract for Frank Lloyd Wright to design a Marin County civic center in northern California has become the center of a community uproar.

Alvin Schultz, Greenbrae builder and president of the Marin County Taxpayers Association, has opened a drive to cancel the Wright contract and has announced that his association will "fight any expenditure of public funds for a civic center design" regardless of whom the architect might be.

William Fusselman, a member of the Marin County Board of Supervisors, has been an articulate and highly vocal critic of Wright, basing much of his criticism on the architect's background.

Initial sketches and plans prepared by Wright have been presented to the board and have been widely shown throughout the county at various public exhibits.

In the meantime, two temporary co-chairmen have organized a citizens' group to support the architect's plans for a center that would eventually cost as much as $10 million. They are Harold Stockstad and William A. Steward, both of Mill Valley, and their organization will be known as the Citizens' Committee for the County Center.

Architects to play big role at Aspen design conference

The International Design Conference to be held in Aspen, Colo., June 22-28, will feature papers of several architects and members of related professions, including three from the West Coast. Program theme, "Design and Human Problems — How Are They Meshing?" will be divided into three cycles.

Among the participants will be architect Henry Hill of San Francisco, "Architecture in the Landscape"; landscape architect Ed Williams of San Francisco, "House in the Garden"; and engineer-planner Edgardo Contini of Los Angeles, "Structures of Cities." Walter Packard, economist-conservationist of Berkeley, Calif., will summarize one of the sessions.

Other architect speakers: Alberto T. Arai, Mexico City; Romaldo Guirgola, University of Pennsylvania; Gordon Stephenson, head of the School of Architecture, University of Toronto; and Christopher Tunnard, School of Architecture and Design, Yale University.

Keynoter will be Dr. E. A. Gutkind, Institute of Urban Studies, University of Pennsylvania.

Housing code trips on a stairway

• San Francisco proposal runs into a snag

A new housing code which had promised to be the "bright hope" of San Francisco's slum clearance plans has, figuratively speaking, tripped on a stairway and banged its head against a board.

The accident took place during a surprise battle before the health committee of the San Francisco Board of Supervisors.

City leaders had hoped to have the code enacted by July at which time new inspection teams would be created to crack down on slum housing. To speed hearings, the final draft had been cleared with architects, builders and other interested groups, all of whom had supposedly endorsed the new code.

The health committee hearing, however, turned into a battle royal when the Chamber of Commerce, the San Francisco Planning and Housing Association, Associated Home Builders and the public health director took issue with parts of the proposed new code.

The code, as drafted, sets minimum standards for everything from the size of rooms in a house to the amount of heat the furnace should produce and it would apply to every home built in San Francisco since August 17, 1923. Approximately half of the city's homes were built prior to that date and thus would be exempt from the new code standards.

The fight arose over a section that would require two stairways leading to the ground from any floor more than 14 ft. from the ground. Carl Gellert of Standard Builders immediately protested that the requirement would add $750 to $1,000 to the cost of each new home with more than one floor above the garage.

Chief Albert Hayes of the Fire Department Bureau of Fire Prevention then accused Gellert of "trying to confuse the committee" and added, "People are entitled to two ways out. The second floor is where most people die in a fire!"

The second section to come in for trouble related to a board of appeals to which home owners could turn for redress against the code. Dr. Ellis Sox, public health director, attacked this provision with the declaration that "an appeals board would destroy the effectiveness of the law."

Architect Leonard Tivol, representing the AIA, said the chapter "is supporting the code primarily because it would make federal redevelopment money available. But the code must have an appeal section."

So San Francisco's new housing code remains still a subject for heated discussion, with approval by the health committee put over to later sessions.

More money for vet housing

New California state legislation provides for a $300 million bond issue, raised from $200 million through efforts of the Home Builders Council of California, to provide additional home financing for California veterans.

The new bill sets a price ceiling of $25,000 on the amount a veteran can pay for a home; retains the loan limitation of $15,000; continues the acceptance of sales contracts with veterans pending completion of negotiations with the Cal-Vet Board; and continues a policy of no refinancing until all applications for new home purchases are processed.

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MASTER PLAN calls for business block improvement and street conversion to shopping mall in two stages.

REAR OF BLOCK as it looks today and proposed realignment of street to provide larger parking area contiguous to stores, with removal of Union Pacific Depot.

Revitalization at work: shopping mall for Pomona

DOWNTOWN REVITALIZATION is becoming a reality in Pomona, Calif., where property owners are sponsoring a plan to beautify and unite all buildings in the entire 100 block on both the First and Second street sides.

Back in October 1954 the Pomona Central Business District, Inc., was organized for the purpose of maintaining a dynamic downtown shopping center. Already several steps have been taken to achieve this objective, among them greatly improved accessibility through a master plan for streets and highways and expanded off-street parking facilities.

"The battle is being fought on many fronts, but requires considerable coordination," admits executive director Earl H. Kieselhorst. He adds, however, that Pomona has arrived at a point where it needs a master plan for store modernization, which would be achieved in the same way the other plans are being completed, on a step-by-step basis.

A blockwide project of cooperating property owners is now in process of development, with Carlo Fontaine & Associates, industrial design firm whose staff is made up of architects and city planners, having been commissioned to prepare precise plans on which bids will be made and costs distributed to each owner on a front foot basis. "Advantages of such a blockwide project," explains Kieselhorst, "is that it gives the group of small stores and property owners the dominance and prestige of large capital investment for relatively small individual outlay."

Here is the program as he sees it: "Every effort is being made to expand parking immediately contiguous to the rear of stores fronting our major shopping street to eliminate parking there altogether, as the first stage in the development of a shopping mall. Next, the sidewalks will be widened and a landscaped planter center strip with trees will be installed, leaving one lane in each direction for movement of traffic. After property owners have seen the advantages of such beautification, it is felt they will agree to the conversion of the street to a complete mall closed to traffic without having to go into costly litigation in street abandonment proceedings."

Pomona has purchased off-street parking facilities from funds supplied by owner assessments (about $500,000), parking meter revenues and the sale of unnecessary streets and alleys. The master plan calls for closing every other cross street and two alleys entering the main shopping street to provide longer, more unified blocks. Property owners involved are deeding their rights to the city on the condition that it agrees to acquire additional off-street parking from the proceeds of such sales. As Kieselhorst points out: "The owners benefit from the increased parking and the city puts unproductive streets back on the tax rolls."

Thus far one alley has been closed and sold; deeds have been obtained for three streets and another alley; and hearings are being held by the City Council preparatory to their closing and sale.

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POINTS OF VIEW

City planning: a challenge

Edmund P. McKanna, long-time member of the Los Angeles Planning Commission, spoke at a dinner honoring the fifth year design class at the University of Southern California School of Architecture

CITY PLANNING offers the greatest unexplored challenge to young designers today. Imagination rules the world and it should be the purpose of young men starting out in the planning professions to solve the overriding domestic problems facing the next generation. Eighty percent of our people inhabit the great metropolitan areas of America, creating problems of city living and city functions unprecedented in previous ages. It is the duty and the unique challenge of the architect-engineer-planner to solve these complex problems and provide greater and more rational living vehicles for the metropolitan city areas of the next decades.

Southern California and more specifically the urban complex that is centered on Los Angeles is the goal of the greatest voluntary mass migration in the history of man. Every two minutes there is a net gain of one in the population of this Los Angeles urban complex. Seven hundred a day, more than a quarter million a year, are confronting the officials of this area with tremendous problems of growth. This cyclonic expansion is not only a matter of new homes. There are needs for parks, for playgrounds, for street and sewer improvements, for all the attributes of a healthy city.

Just as no rational person would think of building a beautiful home or an effective factory without an architect, so no community can hope to efficiently solve its growth problems without a competent, qualified planner who has both the stature and the authority to do his job.

Planners are community architects but like architects, they must thoroughly know their client. What kind of a city do we want? But first, what do we have now?

Every community should make an inventory of what their resources are. Just as a close perusal of a young man's physical and mental resources will enable a qualified expert to determine the goal for which he is best suited to train and strive, so a similar analysis guides the planner in setting up a master plan of development. Now in this matter of a master plan, there has been a great deal of confused thinking and talking. A master plan is not something as immutable as the tablets that Moses brought down from Sinai. No human has a pipeline to omniscience. A master plan is a pattern. When changes are proposed, they are checked against this master plan. The burden of proof is upon the change proposed and thus the master plan avoids a city growing by decisions of expedience and political pressure.

I often feel that we should have a new synonym for planning. We need a word or a phrase which can suggest the dynamite that is wrapped up in planning. Everyone has hopes and dreams and aspirations. Planning—good planning—is the way that hopes can be realized. But the name connotes something else to the average person. Maybe the planning department should be known as the Department of the Future, the Department of Growth or the Department of Tomorrow.

What could be more exciting than planning a great city—actually playing a part in its growth. We have our legends of winning the West and building a great country. Young people have always yearned for adventure. The brave new world is not to be reached by rocket ship but by planning for it and building it now. It would be naive to expect that the young of the land would develop the same enthusiasm for a career in planning that they do for one in the sports world or aviation, but a great deal can be done that is not being done now. In Florence during the Renaissance, the young men of the city vied in verse and architectural competitions, just as our young men do in sports. They were just as virile then, but the environmental influences conditioned them just as our young men of today are moulded by their environment.

School design: obligations

Tacoma architect Robert Billsbrough Price addressed a forum on "Schools Within Reason—the logic of Wood in Modern School Design," sponsored by the Tacoma Lumbermen's Club

ONE CANNOT precisely and carefully isolate any one segment of the design process. Each in its own way forms a definite and vital part of the design; each, however, is contingent upon the other. Structural, mechanical, electrical, acoustical, landscape, art—each to have meaning must be examined in its relationship to the others and to the whole. Each depends to a part on the others for the desired result. All should be natural and logical solutions stemming fundamentally from the building program.

I believe the architect, the educator and the board member and all others charged with the responsibility of programming, designing and building shelters for the education of our students have assumed four very definite obligations.

Our first obligation is to do a good school; good for the students it will serve. It should provide an atmosphere that is appealing to the student, its very environment conducive to learning and instilling in all a desire to be a part of the school. The planning should allow the utmost in individuality and at the same time make possible group expression. It should be designed so as to provide freedom of movement with a minimum of regulations and controls. In all, it should be an easy, natural, workable expression of the needs: one that will meet today's program and yet with a very real realization that today's program will change, and that this change in program will not make obsolete but rather allow a continuing workable pleasant environment for tomorrow. This shelter that we provide should express the truth in a manner as simple, as pleasing and as straightforward as we as architects and you as educators and technicians are capable of conceiving.

Our second obligation is that which we owe to those who must use these facilities as an aid to teaching. As the students must be enriched by their surroundings, so too must those who provide the leadership be enriched. Again, every effort should be made to provide an environment that will help rather than hinder the teaching and learning process for those it was designed to serve.

Our third obligation is to our client. True, the student, the teachers, the administrators are all our client, but in this case I refer to those who must pay the bill: the taxpayer. To them we owe a definite and very real responsibility. We must conceive shelters that are workable, pleasant and inexpensive and as maintenance free as it is in our ability to produce. In other words, we should build the most for the least.

And lastly I believe that as architects, we have a definite obligation to ourselves to do our very best. Not simply to solve the problem, or to assemble the parts as they are handed to us, but rather to challenge and evaluate all facets of the building program.

Continued on p.

Art Hupy

An architect's case study of a church

St. Elizabeth's Episcopal Church
Burien, Washington

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DURHAM, ANDERSON & FREED
Architects

STEVENSON & RUBENS
Structural Engineers

GEORGE TEUFEL & CO.
General Contractor

AN ARCHITECT'S CASE STUDY OF A CHURCH

by ROBERT L. DURHAM, AIA

IF THERE is any one major requirement for an architect designing churches, it is the virtue of patience. St. Elizabeth's is an indication: initial conversations were held in February 1950 and the job was completed in January, seven years later. In addition, there was a change in ministers, a change in sites and, as usual, a good many changes in plans.

To make this case study helpful, we outline below the week-by-week records of the progress. Italicized paragraphs emphasize the basic policy of our firm in dealing with church clients.

We were first called to St. Elizabeth's by the vicar, Rev. Edward Slater, who had seen our other work, with the request that we look at the property, a 100x190-ft. corner lot. It contained a small chapel with a one-room social hall tacked on the back. The congregation at that time planned to build a parish hall adjacent to the chapel for a budget of $20,000. The members wished to know our ideas on "modern" architecture in general and on church architecture in particular and were interviewing three architects.

In our interview we emphasized one of the firm's basic philosophies: the master plan for a 25-year program. We pointed out that the typical congregation builds one addition after the other without knowing exactly where it is going. Many times new space is constructed, bringing new growth, which makes the previous structures inadequate, with no possible solution for keeping all parts of the building in proper balance.

MEMO: March 6. We submitted a standard form of contract based on an 8% fee and asked the owners to put down their requirements in writing and to furnish a topographical survey. The client is trying to secure an adjacent lot to take care of the county's recently adopted parking ordinance.

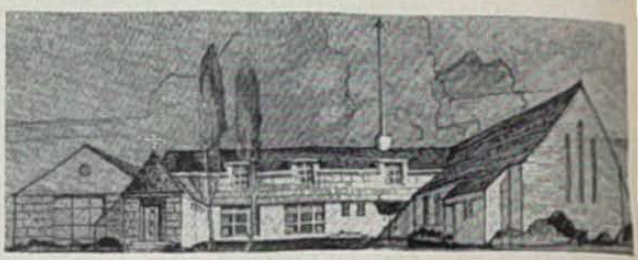
"ENGLISH COUNTRYSIDE CHAPEL using Pacific Northwest materials."

MEMO: March 14. The vicar dropped into the office to leave a sketch of a possible solution. There seems to be fear among many in the church that our design will be too untraditional to be acceptable. ("What the people want is an English countryside chapel using Pacific Northwest materials.") At the same time there is an unrealistic attitude among the building committee members as to the amount of building they can expect for their budget. We wrote: "You should not expect a construction cost of less than $25,000 for 3,200 sq. ft. of floor area. This may cover the roof and rough construction of the second floor, but will not cover the finish of the second floor. Diligent use of volunteer labor may reduce this amount to $20,000. We would be delinquent in our duty to let you assume that this can be done for a lower cost than this amount."

MEMO: March 22. A bishop's committee meeting was held and the general requirements reviewed, which are as follows:

1. A future nave to seat 200.
2. A choir space for 20.
3. A narthex with adjacent lavatories.
4. Sacristies with additional space for acolytes.
5. A clergy vesting room which would be used for an office.
6. A social room to seat 300. This room was programmed to be used for temporary worship and to include a stage and two dressing rooms which would be used by the choir in the meantime.
7. A nursery for 25 to 50.
8. A kindergarten room for 150.
9. A primary room for 250.
10. A kitchen, choir vestry, storage, heating plant, etc.

MEMO: March 30. A solution was discussed with a proposal for a two-story parish house as the central wing, including a guild hall on the first floor, with the future nave to be constructed adjacent to the side street. The congregation has made overtures about buying adjacent property, but are skeptical because of the $15,000 price. It intends to start a campaign May 1 for $35,000.

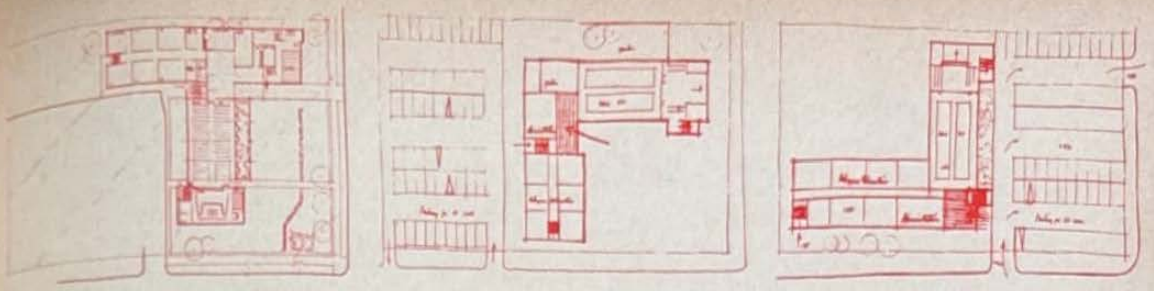


EARLY PROPOSAL features two-story parish house as central wing.

MEMO: June 2. A meeting was held to review the plans and results of a financial campaign. Members have raised $14,000 and do not believe it possible to get more than $20,000. With volunteer labor, they feel that they can get the amount of parish house necessary. There was considerable discussion about the drainage line which runs diagonally across the lot, taking water from adjacent lots to a street inlet. With no record of this line at the county, the idea of running it underneath the building seemed to be not only expensive but somewhat hazardous. The architects proposed that because of the small size of this site in view of expected growth, because of county parking requirements and because of the drainage line, the congregation consider other properties in the neighborhood with the intent of selling the present building and using the money to start over again. This proposal was made in the face of fixed opinion that the congregation would, however, build on its present site.

During the next several months there were discussions with the vicar regarding other sites, particularly one close to the Burien shopping center. It was determined that the lot, sloping gently toward the south and bordered by fine trees on both streets, would be available for $7,500. The vicar presented a sketch done by a Philadelphia architect who has performed work over a period of years for the Methodist headquarters, showing a solution with a social hall allowing the nave to expand into it. We encouraged the committee to let us start preparation of a new master plan without consideration of the amount of building which it could construct with immediate funds. There was a hope by this time that the diocese might make $25,000 available for the first unit.

MEMO: November 1. The vicar came to discuss plans for approaching the congregation about the acquisition of the new site. We suggested that we be given 25 minutes to



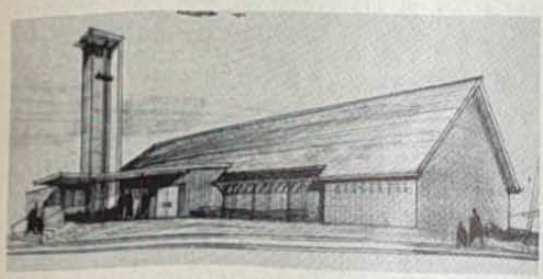
SCHEME A SCHEME B SCHEME C

present some slides of other structures illustrating present-day concepts of church architecture and the basic features involved. This gave us a chance to point out the good features of the new site such as size, lack of drainage problems, space for parking and a strategic location in relation to neighborhood shopping. ●

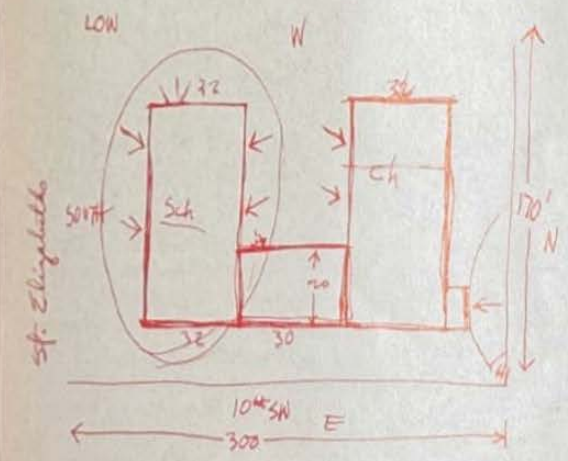
MEMO: December 6. A conference was held with Bishop Stephen F. Bayne Jr. at the Diocese of Olympia, who felt that the initial expenditure should be at least $40,000 and indicated his intention to help the congregation. He did not seem as enthusiastic over the new proprety as we had hoped and repeated the phrase, "if we move," a number of times. He stated that all work should be of a permanent nature in the new construction. ●

After the new property was obtained, three alternate schemes were produced and discussed with the bishop's committee, which in each Episcopalian church is normally charged with building committee responsibilities. One scheme was selected and exterior sketches made for presentation to the church members. Then followed a period of inactivity.

MEMO: March 27, 1952. The vicar came to the office and asked that we do more work on the preliminary plan. He said that there are those in the congregation who feel that the present design is a "combination between a barn and a silo." At this time he brought another sketch of his own, indicating a desire to have the building in three wings. The one on the south would be a meeting room with a higher ceiling and church school space below. ●



"COMBINATION between a barn and a silo"; vicar's own sektch below.



Permit us to make the observation that the architect must always contend with the minister who dabbles in architecture. It is well to suggest in the early stages that the architect should stick to architecture without attempting to interpret theology and the clergy should stick to the ministry. Full credit, however, must be given the vicar in this case for his persistent and continuing leadership of the congregation toward a new building. By this time he was thinking in terms of $200,000 for the ultimate plan, with the expectation that the smaller half of this amount would be spent on the first unit.

MEMO: March 11, 1953. A new vicar has been obtained for the parish, his predecessor having had the responsibility of two parishes.

In any church the change of ministers is usually a catastrophe for the architect so far as the use of the work which has gone before. The architect needs to spend considerable time with the new man in order to orient him as to the reasons for the previous work and to determine as accurately as possible the ideas of the new leadership.

Father H. A. Berngen, whose background was originally Chicago, was for some years at Trinity Church in New York, serving one of the mission parishes on the lower East Side. We found that he had very definite ideas from the liturgical standpoint. After reviewing the work which had been done and the reason for changing to the new lot location, we discussed in detail the building program. The new vicar felt that there should be considerable space given to the chancel, with the choir so sublimated as to definitely take its members out of the class of performers. He was interested in having generous space for all features of the "setting of worship," suggesting that the altar should be moved out from the wall in order to allow the priest to be back of it and that even the pulpit should be out of the chancel area. He stated that he thought 300 seats in the nave was the absolute minimum to support a parish and appeared to be receptive to contemporary design, recommending that we review the pamphlet put out by the Commission on Architecture of the Episcopalian Church entitled "Architecture in the Church." Father Berngen added that he did not want a "cute" church.

Perhaps it should be pointed out that in the change of leadership, there was a change in direction of thought. Where the first vicar had put considerable emphasis on religious education space and by nature tended to be involved in trying to produce a solution, the new vicar seemed to put most emphasis on the worship area and by nature tended to analyze the requirements of the setting for worship. This subtle change had a major part in changing the direction of the design.

The vicar outlined his thought that the religious education program should develop two or three services to

which people would come as a family so that children in the grades worship with the family for half of the program and go to the education space for the remainder. This concept reduces the Sunday school requirement to 200. The vicar feels that a church cannot compete with day school and provide the same quality of space which is used only a half hour each week.

The congregation has been offered $17,500 for its present land and building. With $2,000 or so in the building fund, members hope to raise a total of $25,000, which will be matched with an equal amount from the diocese. We suggested that it would be actually necessary to have $100,000 to build the first unit as it should be done. However, we encouraged the members to continue to think in terms of the master plan rather than get involved in determining which unit is to be built first. •

In our opinion, this is a cardinal point which should not be lost. Unless the master plan as a solution for the client's long-term needs becomes dominant, there is always a tendency to compromise in such a way as to make it easy to build the first unit which may lead to an unsound solution.

At this time we asked Father Berngen to write a new church program outlining the needs in detail. He pointed out that the unusual side aisle requirements in an Episcopal church demand that they be almost as wide as the center aisles to allow for full processionals. The vicar explained his feeling of the chancel as a "God set apart" rather than a "God of fellowship." This was the beginning of a continuing exchange of philosophy between the minister and the architect.

MEMO: April 22. A new building program was crystallized as follows:

1. Nave to seat 350, with a chapel in relation to the church proper. (The bishop later increased the size to 400.)
2. Sanctuary to have ample space for movement of the clergy, to have a clear view for the congregation, to have a full width communion rail with consideration for the procession and recession of communicants.
3. Sacristy to be provided with space enough for vestments and closet space.
4. Working sacristy with sink and closet space for acolytes' vestments.
5. Choir to accommodate 20 persons and to be located off center enough so that there will be no distraction from the focus of the altar.
6. Narthex to accommodate a coat room, tract stand and table or desk.
7. Aisles to be sufficient in width for processions.
8. Doors to be sufficient in width for funerals.
9. Chapel to provide for 50 people.
10. Pastor's study to be large enough to be used as a conference room.
11. Storage space for various departments of the church.
12. Printing room.
13. Sunday school for 400 children, with divisions into four different departments and a library and clubroom.
14. Parish hall to accommodate 250 persons, with adjacent kitchen.
15. Parking area with space for one car for each six persons.
16. Miscellaneous: heating plants, lavatories, cloak rooms, tower, etc. •

One of the most important items is a good analysis of requirements. Preferably, it should include a statement on the philosophy of worship and education of the particular church. In our practice we furnish a questionnaire to help the committee crystalize its ideas. The program is referred to continuously as the solution proceeds from plan to interior to exterior.

MEMO: May 13. A trip was taken with the new minister to various Episcopalian churches around Seattle. As we went from one to another, Father Berngen explained his interpretation of the functional requirements; the amount of space required for the minister to kneel in front of the altar; the philosophy of the baptistry as a symbol of one's entering into the church in a philosophical as well as a realistic way; and the functional facilities for the storage of various symbols used in connection with baptisms. He outlined in detail the activity of the working sacristy and the care of vestments there. He spoke almost bitterly against the present trend of deep-pile carpets, padded pews, etc., in protest against the expression, "Gracious living in the House of God." •

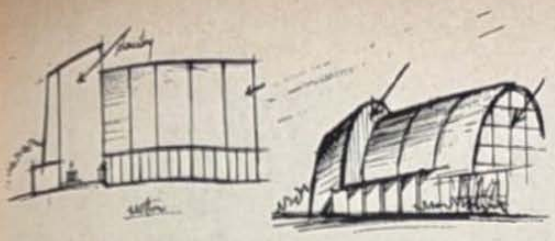
MEMO: July 20. A meeting was held with the bishop's committee for a review of the building program, including preliminary master plan sketches. The scheme with parking out toward the street was rejected. The T-shaped plan seemed to allow more space for expansion than the L-shaped one. At this time we were able to convince the members of having a chapel which would not be expanded from the nave. It was generally decided that we would take the summer to get the preliminary design agreed upon and would expect to meet again as soon as Father Berngen returned from a trip to Europe. The congregation is thinking in terms of collecting $40,000 and obtaining another $40,000 from the diocese. •

MEMO: August 14. A meeting was held with Father Berngen to review Plans A and B. Consideration was given to placing the choir back of the altar in such a way that it would not be seen by the congregation. Because of the nature of the lot, it was agreed there will be no basement under the nave and consequently there will be no way for the minister to get from the narthex to the sacristy without going outside the building or down the side aisle. •

At about this point the plan began to be fixed and recognized as a logical solution. Because of the slope of the contours away from the corner and the location of the entrance to the narthex to be on grade, without steps, the chancel end of the building would be slightly sunk in the existing grade. The architects proposed a circular wall to surround the sacristies and choir robing room which would act as a retaining wall, but at the same time serve as a garden wall from the exterior. This would overcome the appearance of a building partly sunk in the ground. The main building would rise back of this wall. From the narthex a stairway would lead directly to a large parking lot on the back side of the building and then on down to the other religious education spaces. The choir was set off to one side of the congregation to be part of it and have the same relationship philosophically to the altar. The organ chamber was to speak directly to the congregation and be above the sacristy area.

It is a basic philosophy of our firm to insist that the plan be recognized as an accepted solution by the client before going on to the development of the concept of interior design and, of course, exterior design. We believe this discipline mandatory. Considerable patience must be exercised by the architect in developing an appreciation for this inside-outside approach. The history of the eclectic "outside first" approach is still too strong in people's minds to make this easy to overcome.

The architect has previously admitted that the design concept for the structure of the building came about as he sat in his own church sketching on the back of the printed "Order of Worship." This should not reflect on the quality of the sermons of his own minister, but perhaps indicates the fact that church is one of the few places in which today's architect is undisturbed by telephone, dictaphone, contractors and salesmen.



DESIGN CONCEPT emerges: two parabolic shaped arches, one inside other, at juncture of chancel and nave.

The design concept involved the use of parabolic shaped laminated arches but with two, one inside the other, at the juncture of the chancel and nave. The outside arch would serve to support the raised roof over the chancel and allow the space between the two arches to be filled in with plastic running completely around the perimeter of the inside arch. Side aisles would break out with a flat roof and the roof covering of the nave would follow the parabolic shape of the arch.

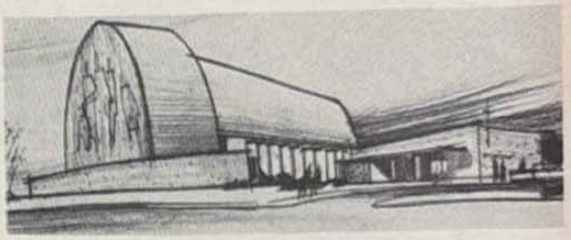
MEMO: June 9, 1954. We reviewed preliminary plans at a meeting with Father Berngen. The chapel was made slightly larger. Discussing the chancel, we agreed to study the possibility of placing the baptistry where the lectern is usually located. The baptistry would be up one step and perhaps have a credence table on an adjacent arch. A symbolic wrought iron symbol of the Holy Spirit might be suspended from the ceiling. The pulpit is to be little more than an open platform surrounded with a wrought iron railing to allow the congregation to see the total form of the minister's body as well as his hands. He feels that this adds to the expressiveness of the minister's gestures during the sermon. At the same time when the pulpit is empty, it will not act as a competitive mass to the altar itself. The choir is to be moved toward the congregation to be less a part of the chancel. The minister expressed concern about contractors on the project, especially as to the determination of which ones in the local community might be acceptable. He was encouraged to place this responsibility in the hands of the architects. ●

It is our practice to recommend competitive bids from selected contractors. Care is always needed to prevent a house builder in the church from thinking this an opportunity to get a commercial job. The architect who gets a definite commitment from the building committee that the work will be awarded to the low bidder, regardless of the difference in bids, will save himself trouble at a later date.

MEMO: June 12. Preliminary plans were given enthusiastic approval at a meeting with Father Berngen and Bishop Bayne. The latter emphasized seating for 400 and the possibility of future expansion and stated that an ambulatory is mandatory. He liked the idea of the design concept of the lighting and was not at all concerned that the shape of the building might appear somewhat like a hangar, an armadillo or a quonset hut. He suggested a huge mosaic or painting in place of the screen on the front of the building. He mentioned Emiel Frei in St. Louis in passing and encouraged us in the thought of incorporating art at this point in the design. He felt that $90,000 was a reasonable budget and that construction should start as soon as possible. ●

MEMO: July 27. A meeting was held with about 20 people at the church. This was an expanded committee and we started out by again reviewing the building program. Members agreed that the program was still valid. We reviewed the potentials of the lot and its characteristics, taking into account traffic, noise, view and shape of the building. Plans were given general approval. It was decided that the choir space would be moved on the opposite side of the nave and the space made a little larger to allow people to see the choir when singing. ●

MEMO: August 19. A meeting was held with about eight persons present to review revised plans, interior sketch and exteriors. There were those in the group who were somewhat shocked by the design and recalled that our original instructions had been to move toward a simple English countryside type of concept. One man, an aircraft engineer undoubtedly working on the design of space ships, was asked on what basis a tail surface of a bomber was determined: preconceived ideas of shape or mathematics? He answered: "Mathematics, of course." We attempted to lead the group into the feeling that we are living in a new age which requires new shapes and that it is just as valid for a church to have a new shape as it is for an airplane. We proposed native textured materials such as wood shakes on the roof and stone on the walls. We pointed out the advantage of the existing trees which would serve to help soften the unorthodox lines of the structural concept.



"NEW AGE requires new shapes just as valid for church as for airplane."

We have found it essential to have very good presentation sketches; slides are made of plans, interiors and exterior views before any presentation to a congregation.

At this time there was considerable work done by the architects in determining the raised collar around the roof: should it raise in the most simple fashion from the face of the facade or break back as in the final design. The cross was added and made a part of the raised collar after considerable discussion with everyone involved.

Plans were reviewed by the architectural commission of laymen and clergy serving for the bishop. They were approved but with some skepticism.

Final plans were completed during the summer and bids called, with a low basic figure of $99,919. Financing was arranged through the diocese and construction started February 15, 1955. During construction minor modifications were made, especially in the placing of the handsplit shakes, since it was found that as they followed the parabolic arch to the peak, they came up to a flat surface. Roof furring was added to bring the shakes up to a peak, not violating the required minimum slope for shakes nor changing the shape of the parabolic structure.

For the architects, the job resulted in a net loss of $1,991.46 (see cost breakdown on next page). Net profit or loss, of course, is not necessarily an indication of "net satisfaction." Our personal friends who at one time had said, "Aren't you slipping a little?" now came back to say, "You know I was inside that church the other day and I begin to see what you are driving at."

The building still lacks many things. Now, eight years after the start, conversations are being held concerning a permanent altar design, landscaping and future additions. Bert Willemse, stained glass artist in Portland, is

working on sketches for the side windows. The mural on the main facade to be done in band-sawn handsplit cedar representing the "Tree of Jesse" is still to be started by the architect and volunteer labor crew.

The design was entered in the 1957 meeting of the National Conference of Church Architecture in St. Louis where the jury gave it the highest award. Jurors reported that they used the following questions in their judgment.

1. Was the architecture conceived from an idea?
2. Was it a strong idea?
3. How did the architect deal with the purpose, use and structure in creating a space with religious character?
4. Was the development consistent enough to permeate the entire work?

Religious character? Evidently this is a matter of some differing interpretation, as these quotations indicate.

BUREAU OF CHURCH BUILDING: As a final word, we sum up by saying that the exterior design, in our humble estimation, lacks religious refinement and inspiration.

JOINT COMMISSION ON CHURCH ARCHITECTURE OF THE (EPISCOPAL CHURCH) CONVENTION: When I think of some of the unimaginative trash that we have sponsored, I cannot allow myself to take too serious objection to this honest effort which may turn out to be creative in the extreme.

CHRISTIAN CENTURY MAGAZINE: Durham, Anderson & Freed's heavy shingled little gem under a parabolic roof, St. Elizabeth's in Burien, Wash., deserved the Church Architectural Guild's award.

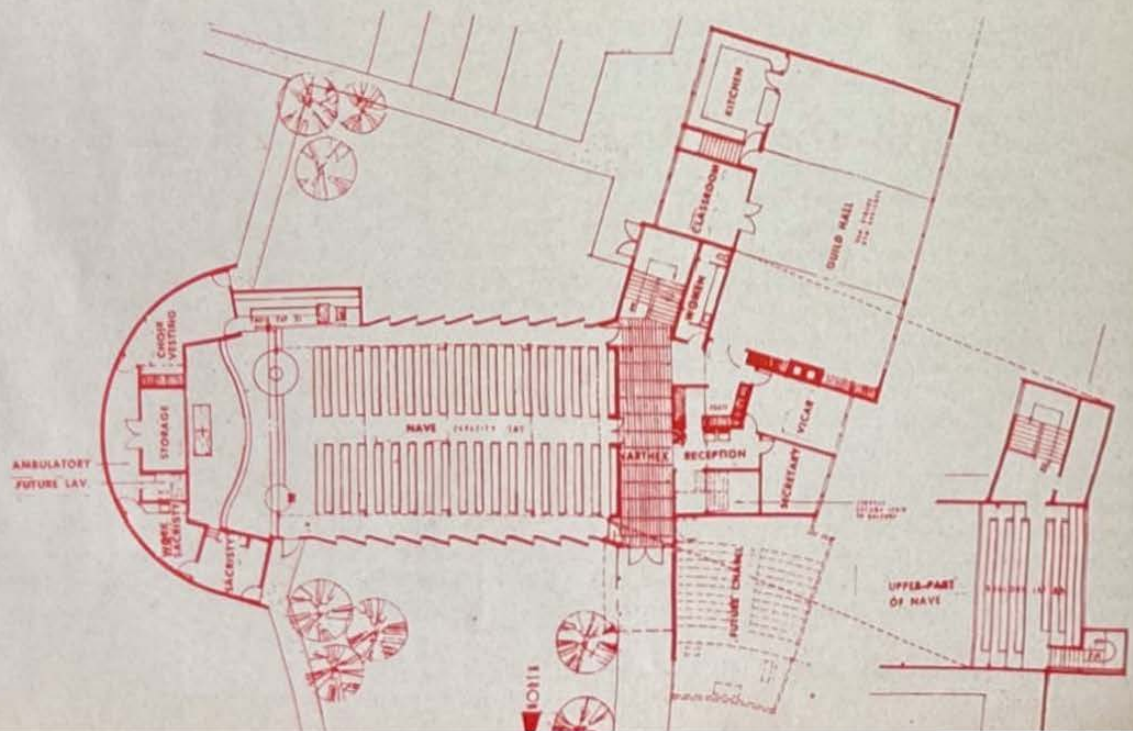
If credits are due, perhaps they should go most to Father Slater who kindled the dream of a new church, to Father Berngen who crystallized the philosophy, to Bishop Bayne for his encouragement of contemporary architecture and to the building committee which was willing to set aside its preconceived ideas in the hope of something better. Associated with the architects, structural engineer and general contractor on the project were Stern & Towne, mechanical engineers; Beverly A. Travis, electrical engineer; and Gladwyn Morrison, color consultant.

Building Costs:

Basic bid	$ 99,919.00	
Parking area	3,000.00	
Chancel furniture (temporary)	1,300.00	
Interior painting	1,400.00	
Shakes in lieu of shingles	1,700.00	
Change orders	2,672.69	
Total	$109,991.69	

Architects' Production Costs:

Preliminaries 406 hours	$ 1,151.72	
Working drawings 787 hours	2,127.51	
Supervision 244 hours	787.66	
		$ 4,066.89
Overhead		4,066.89
Mechanical Engineer	$ 850.15	
Structural Engineer	1,282.71	
Electrical Engineer	179.15	
		$ 2,312.01
Color consultant	$ 114.00	
Professional renderings	195.00	
Photos	36.00	345.00
Total		$10,790.79
Fee 8% of $109,991.69		8,799.33
Net Loss		$ 1,991.46



Rickey's Garden Hotel
Palo Alto, California

•

OFFICE of ERNEST J. KUMP
Architects

BARRETT CONSTRUCTION CO.
General Contractor

TRELLIS-SCREENED CORRIDORS (above) provide access at windowless rear; pool side has lounging balconies. Exposed concrete, cast with batten-lined forms, are painted redwood color. Redwood sunbreaks add drama to exterior. Note twin hydraulic elevator with metal and clear plastic cabs in center of building. There are two other exterior models in world—one at El Cortez Hotel in San Diego, another in Japan.

OUTLINE SPECIFICATIONS

Structure: reinforced concrete columns, slabs, walls.

Exterior Finish: redwood vertical boards and battens on corridor side and in elevator lobby; exposed concrete ends painted redwood.

Roof Surfacing: tar and gravel.

Doors: painted wood; sliding glass in steel frames.

Floor Finish: concrete on outside corridors; decorated tile in lobby; tile on balconies and lanais, in baths; carpeting in suites.

Interior Walls: tinted plaster over concrete.

Ceilings: plaster with integral color.

Special Equipment: twin free-standing hydraulic elevators—Otis.

Heating: electrically heated tile ovens—Kachelofens.

Total Area: 39,000 sq. ft.

Total Cost: $850,000, including elevators, furnishings, landscaping.

Date of Completion: December 1957.

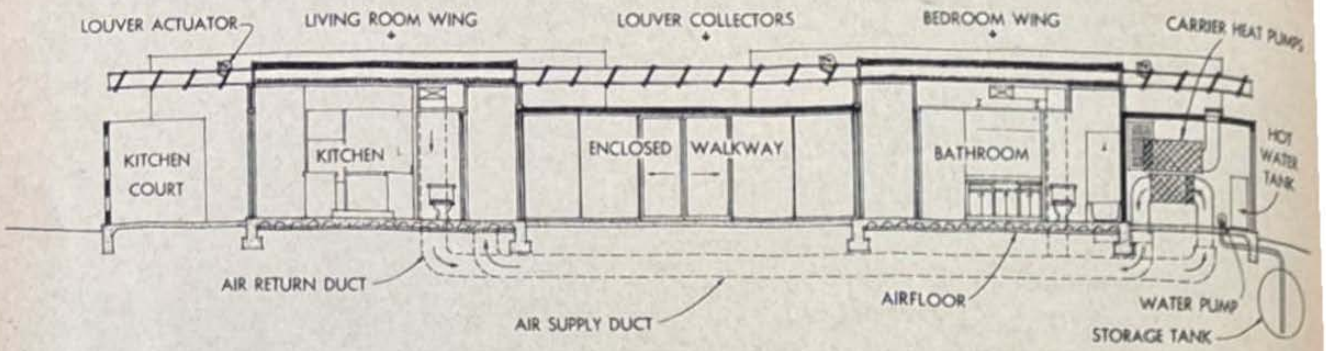
Structure sits in a sunken landscaped pool

IN DEVELOPING an addition to his existing Studio Inn (designed by the same architectural firm), the client desired six floors with 64 luxury suites. To meet a height-limit regulation, it was necessary to lower the structure 3 ft., the drainage problem being solved by placing the building in a landscaped pool. A 14-ft. cantilevered concrete slab extends the first floor several feet out over the depressed water garden area which flows underneath. Access to the entrance lobby is via a curved bridge.

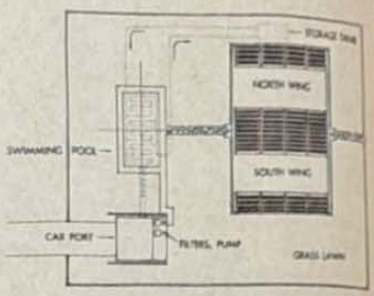
The suites—nine on the first floor and 11 on each of the upper five—are entered from a balcony corridor which extends along the rear at each level. Units consist of a spacious living-bedroom area, dressing room-bath combination and lanai with tile floor, wood jalousies, sliding glass doors and Vienna-imported ornamental iron railings. Art objects from Europe and the Orient decorate the hotel.

Twin outdoor hydraulic elevators have metal and clear plastic cabs affording guests a diverting ride and a fine view both day and night. The elevators, whose 50-ft. plungers rest on solid concrete beams, require no tower projecting above the roof to house the lifting mechanism as in the case of the cable type.

Associated with the Kump office on this project were Douglas Baylis, landscape architect; Hall, Pregnoff & Matheu, structural engineers; Clarence Rinne, project engineer; Smith & Garthorne, mechanical-electrical engineers; and Kosta Belotelkin, mechanical engineer.



CROSS SECTION through solar house (above). By integrating swimming pool with air conditioning circuit (below), heat pump is allowed to operate with maximum economy in both winter and summer.



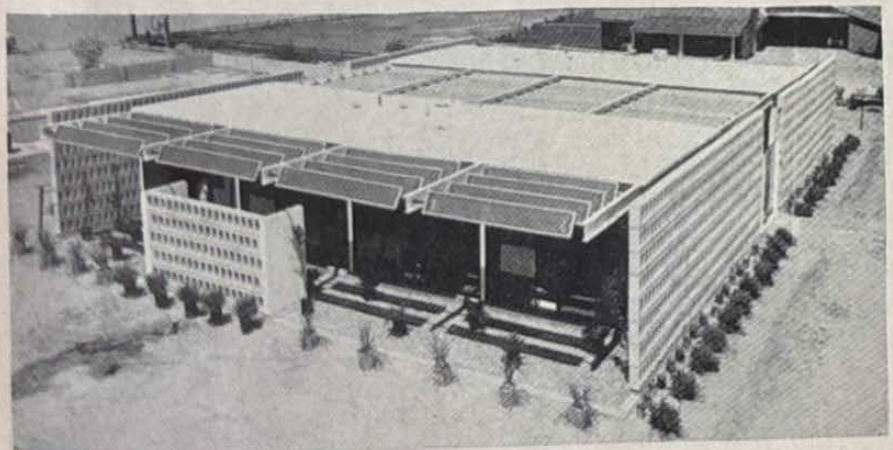
Solar heating: costs and operation

SOLAR HEATING SYSTEM of the type which can now be used in American homes in two-thirds of the nation will pay for itself in less than 10 years. Basis for this estimate is the solar house which was opened to the public near Phoenix last month (see PA&B for April), designed by architectural student Peter R. Lee and constructed by the Phoenix Association of Home Builders.

The system as employed in this house cost about $4,000 more to install than a conventional heating and cooling system, explains John I. Yellot, executive vice president of the Association for Applied Solar Energy, project sponsor. But the utility bills will be reduced $550 annually, he added. It is estimated that heating and cooling the house through conventional methods would cost $1,000 a year, whereas with the solar system the figure will be $450, including maintenance.

All mechanical equipment being used in the house is now available through commercial sources and is economically feasible for new construction in all but the eastern one-third of the nation, Yellott declares. Though this particular house is in the $50,000 bracket, similar equipment could be installed in virtually any new home costing more than $10,000.

Heating System: Solar energy will provide winter heat for the house and swimming pool and will heat the domestic water supply throughout the year. Energy is gathered by a series of collector panels which are rotated by a clock-operated motor to face south during daylight hours in the heating season. Their aluminum-clad backs are covered with Dacron batting for insulation, over which are blackened copper tubes set in a copper sheet. Plastic sheets placed over the copper allow the sun's energy to get through, but prevent long heat waves from radiating back. Water circulated through the tubes is heated and stored in an underground tank, providing a reserve for use at night and during cloudy weather. Heat is transferred as needed by coils mounted on the intake faces of two standard air-to-air heat pumps, which will extract heat from the outside air when necessary. These pumps rely on the system's heat storage for part of the heat they get.



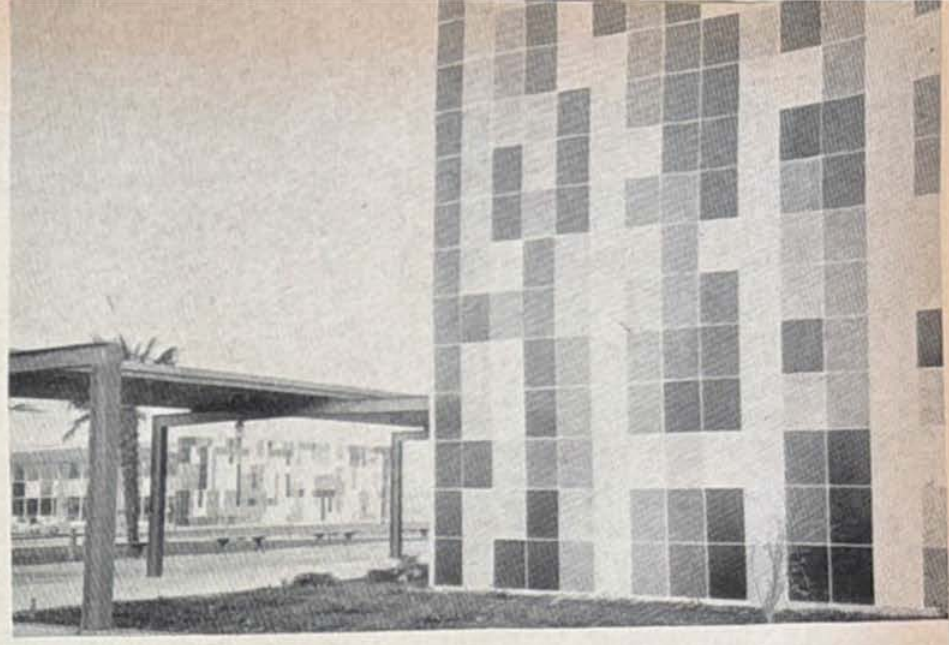
SOUTH-FACING VIEW of solar house, with kitchen court in foreground. Heat is trapped by louver-collectors over central court and north and south patios. Concrete masonry screen walls along east and west sides help cool structure.

Donors: Majority of the materials used for the heating system were donated. Among the companies: duPont (Mylar plastic and Dacron); Revere Copper and Brass (copper tubing and sheeting); Reynolds Metals (aluminum); Farboil Paint (black paint for collectors); Carrier (heat pumps). A graduate physics student and his wife will live in the house for about a year, keeping complete records of its performance, based on a set of instruments bought through a grant of the John B. Pierce Foundation.

Morocco Too: Opening of the solar house near Phoenix was followed shortly by completion of a similar project in Morocco, for which Yellott designed the heating system. It was unveiled for the first time at the Casablanca Trade Fair as a part of the U.S. Department of Commerce exhibit. Use of solar energy is important not only to reduce heating bills, but because fossil fuels already are approaching exhaustion in some areas and are scarce in most sunny nations.

IBM PLANT

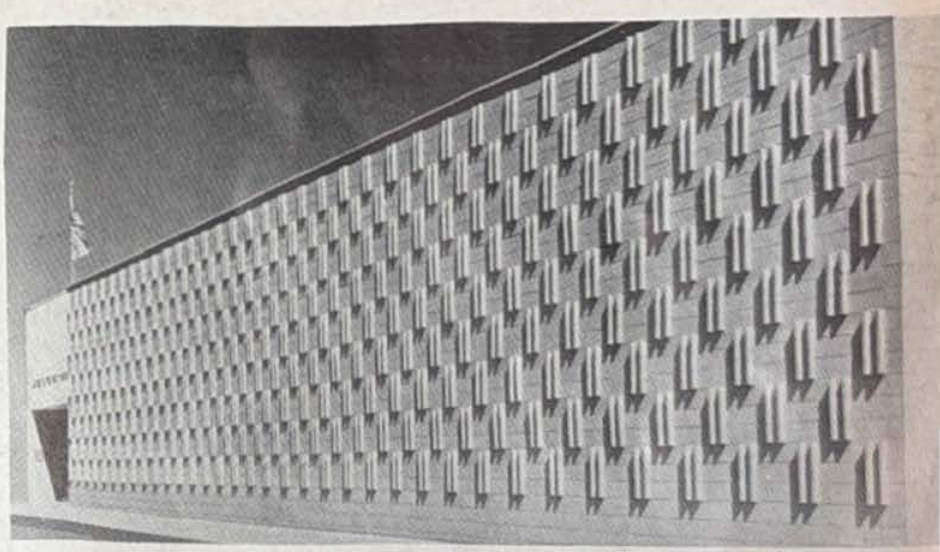
in San Jose illustrates use of ceramic veneer (Gladding, McBean) as facing material which doubles as art form. About 50,000 sq. ft. has been employed in creation of murals, executed in vivid colors by Bay region artists. Architect: John S. Bolles; color coordinator: Robert L. Haldeman.



Putting on a front--three California projects

U. S. POST OFFICE

in La Mirada with its textured wall typifies design and construction versatility of lightweight concrete masonry units (Rocklite). Architects: Victor Gruen & Associates; mason contractor: San Abrams; general contractor: Devon Construction Co.



OFFICE BUILDING

in Beverly Hills features exterior of Italian glass mosaic tile in abstract pattern of blue, white, red, green and yellow, braced with metal grid. Careful detailing enabled installation to be completed at $2 per square foot. Since all patterns were rectangular and all spandrel sections same size, tile work could be set on paper at factory, with no hand setting required on site. Architects: Welton Becket & Associates; structural engineer: Richard E. Bradshaw; general contractor: Ryan Construction Co.

PRODUCTS

water-repellant coating

An answer to the effects of water, wear and weather on wooden doors, sills and stoops is found in Doorcote, a water-repellent liquid epoxy coating. In wet climates it seals water and dampness out; in dry climates it retards drying out, cracking, splitting. Tests indicate Doorcote outlasts paint and varnish as much as 10 to 1 under the most extreme conditions and is impervious to grease, acids, etc. It may be brushed or sprayed over raw wood, old varnish or painted surfaces.—Carl H. Briggs Co. **(Item No. 1)**

outdoor lighting

A shatter-resistant outdoor lighting fixture is designed to eliminate the losses resulting from vandalistic breakage of glass outdoor diffusers. Silvray features a plexiglass diffusing globe, topped by an aluminum reflector. All joints in the units are sealed by neoprene gaskets to keep out insects, dirt and rain; all metal parts are natural finished aluminum, requiring no maintenance.—Silvray Lighting, Inc. **(Item No. 2)**

plywood fastener

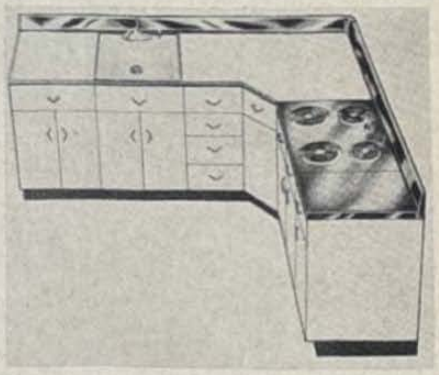
An H-shaped aluminum alloy clip stiffens panel edges in a plywood roof deck at a fraction of the cost of conventional 2x4 blocking. Marketed under the name PlyClip, it looks like a section out of an I-beam with exagerated flanges. The clip stiffens the joint between two adjacent panels by transferring a concentrated load from one panel edge to another. It is a fully adequate substitute, with one exception: in plywood roof deck engineered as a horizontal diaphragm to transmit maximum allowable shear.—Douglas Fir Plywood Association. **(Item No. 3)**

built-in scale

A built-in-the-wall health scale is ideal not only for the bath but for the dressing room and bedroom as well in new or existing homes. Box is made of heavy gauge steel and the platform rests on a rubber covered steel handle. Scale is securely fastened to lid and slightly turned for easy reading. Finishes: chrome, white and prime coated, ready for matching color.—Davis Steel Products Co. **(Item No. 4)**

kitchen cabinet tops

Youngstown has entered the custom cabinet top field with introduction of its Lustre-Trim tops and drop-in sink



bowls of porcelain and stainless steel. They are made on a strictly custom basis, with any variations required to fit a kitchen installation. Tops provide continuous work surface with no metal sealers and are covered with plastic laminate in a wide range of patterns and colors, including an exclusive pattern called Circlet. Backsplash can be adjusted to meet the contour of out-of-square walls, solving one of the most vexing installation problems.—American Standard, Youngstown Kitchens Division.

(Item No. 5)

scored ceramic tile

A newly developed process for cutting grout lines in 6x6-in. standard ceramic tile produces a scored tile which, when installed, results in a wall covering 1 in. square. Tile is applied in the normal manner, then seams and

scored lines are grouted. Major advantages: faster application and less chance of breakage. Scored tile is available in all colors.—Pomona Tile Manufacturing Co. **(Item No. 6)**

open-top lighting diffuser

Open-top construction of the module type Spacelighter, consisting of a rigid frame forming the periphery, makes possible its use as a direct-indirect suspended fixture. Diffusers rest on a flange around the inside bottom edge, similar to the previous model. Only 3 in. in depth, the fixure is finished in baked white enamel; vinyl diffusers are available in a number of patterns —Leadlight Fixture Co. **(Item No. 7)**

decorative expanded metals

Three patterns of decorative expanded metals—Armorweave (top photo) and Festoon in large, 1½-in. wide openings, and Cathedral (bottom), a new type—may be curved, formed, welded and cut without raveling. A variety of finishes may be applied by anodizing, porcelain-enameling and painting to add color and further corrosion-resistance. Among numerous uses for the metals: grilles, protective enclosures, ventilator panels, filter screens —United States Gypsum Co.

(Item No. 8)

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Please send without obligation the data about the products or the literature listed on these pages.

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LITERATURE

classroom acoustics

A new concept in classroom acoustical design is explained in a 16-page booklet entitled "Classrooms for Easy Listening." Use of sound reflective ceilings is covered in easy-to-read text and explanatory drawings, making the material helpful to school officials as well as architects.—The Flexicore Co. **(Item No. 9)**

home sewage disposal

A 40-page primer on sewage pumping and treatment covers a variety of situations encountered by builders in the collection, disposition and treatment of sewage. The non-technical case history presentation runs the gamut from single dwellings up to 1,500-home developments.—Yeomans Brothers Co. **(Item No. 10)**

fire, hazard losses

Written particularly with the architect in mind, "Building Loss Possibilities from Fire and Natural Hazards" discusses these factors: type of construction, enclosures of stairways, elevators and other floor openings, subdivision of large areas, protection against fires in adjoining property, fire-resistant roof coverings and safe chimney construction. Earthquakes, floods, lightning, termites and windstorms also are covered.—National Board of Fire Underwriters. **(Item No. 11)**

lumber directory

More than 200 mills in Washington, Oregon and northern California producing Douglas fir, West Coast hemlock, Western red cedar and Sitka spruce lumber are listed in the 1958 edition of "Where to Buy." The 40-page directory lists key personnel, capacity and facilities of WCLA member mills and the items or timber products in which they specialize.—West Coast Lumbermen's Association. **(Item No. 12)**

asbestos-cement sheets

A manual on the application of flat asbestos-cement sheets covers every aspect from a general discussion of available types and designs through required accessory materials, special tools, care of material, job planning and preparation. Detailed drawings illustrate the text of the 12-page guide. — Asbestos-Cement Products Association. **(Item No. 13)**

stainless steel curtain walls

"Data on Stainless Steel Curtain Walls" summarizes a study at Princeton University's School of Architecture, part of a research project commissioned by the American Iron and Steel Institute, supplementing a series recently released. A comprehensive chart tabulates technical specifications for all buildings that use a significant quantity of stainless steel for which information could be obtained. Photos and architectural drawings illustrate curtain wall panel details, methods of attachments, insulation and weatherseal systems for several important structures such as the recently completed Steel Building in Chicago.—American Iron and Steel Institute. **(Item No. 14)**

home lighting standards

Lighting requirements for small, average and large home living areas are included in the revised one-sheet 1958 edition of "Minimum Light for Living Standards." They specify for living areas under 125 sq. ft., for between 125 and 225 sq. ft. and for over 225 sq. ft., covering both ceiling fixtures and built-in lighting. — American Home Lighting Institute. **(Item No. 15)**

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Warehouses in Seattle, Portland, Spokane

SUPPLIERS

• **United States Ceramic Tile Co.** has opened a new showroom and warehouse at 6460 Corvette St., Los Angeles, and a similar facility in Millbrae to serve the Bay region.

• **Kaiser Aluminum and Chemical Sales, Inc.,** has awarded a franchise to Fraser-Edwards Co., structural division of Malott & Peterson-Grundy, San Francisco, to fabricate and erect stressed skin aluminum dome buildings.

• **Browne Window Manufacturing Co.** has appointed DePartee Co., Inc., of Seattle as distributor.

• **Royal Tile Manufacturing Co.** has opened a warehouse and factory outlet in Phoenix for seven western states: California, Washington, Oregon, Idaho, Utah, Nevada and Arizona.

• **John A. Roebling's Sons Corp.** has named Lloyd F. Stansbury as West Coast supervisor of its construction materials division, replacing the late Robert J. Cole, at the firm's San Francisco district offices.

• **Builders Brick** has appointed Columbia Brick of Portland as exclusive distributor for Clay City brick in northwestern Oregon and southwestern Washington.

• **Schlage Lock Co.** of San Francisco has named its director of research, Ernest L. Schlage, to the post of vice president.

• **Leadlight Fixture Co.** of Oakland has awarded a distributorship to Bruce Emmett Co. of Portland.

• **The Radiant Heating and Cooling Institute** has elected these officers, all Californians: Don Smith, Pasadena, president; Dave Longerot, South Gate, vice president; Harry Taylor, Costa Mesa, secretary; Al Ottum, Los Angeles, treasurer.

• **Nevamar Carefree Kitchens** will add the West Coast to its distribution setup and is planning a representative kitchen installation display to be located at its permanent sales and showroom at 1150 DeForest Ave., Long Beach, Calif.

• **Chase Brass and Copper Co.** has promoted Charles W. Baker, western regional manager since 1952, to assistant general sales manager. He will continue to make his headquarters in Los Angeles, devoting his time to the western and midwestern sales regions. Baker is succeeded by A. R. Armstrong, with offices in San Francisco.

ANNUAL SCHOLARSHIP

Is presented to Thomas B. Mathis (second left) of Edmonds, Wash., by Dean Arthur Herrman, of College of Architecture and Urban Planning at University of Washington on behalf of Seattle Unit Masonry Association. Looking on are UMA president C. L. Gr... and Dean Pietro Belluschi of School of Architecture and Planning of Massachusetts Institute of Technology, who was principal speaker at April 16 awards banquet.

• **American Fire Alarm Co.** has appointed A. Greenburg of Seattle distributor for the state of Washington.

"I put built-in telephone outlets in all my homes"

says Larry Rear, President of Lawrence A. Rear, Builder, Chico, California.

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T-SQUARE TALK

new partners, associates

Ernest J. Kump, FAIA, Palo Alto, Calif., has formed a partnership with Stanley M. Smith, AIA, and Arthur B. Sweetser, the firm continuing to practice architecture under the name of the Office of Ernest J. Kump. A 1939 graduate of the University of California, Smith joined the organization last fall upon his return from six years in Europe and the Near East; Sweetser, who became associated with the Kump office in 1955, studied at Stanford University and the Harvard Graduate School.

Rodney T. Robinson, AIA, and Raymond Ziegler, AIA, have been advanced from associate to partner status in the Los Angeles architectural firm of Allison & Rible.

William R. Hawley has joined Palo Alto architects Albert Sigal Jr. and Milton F. Johnson as a partner and the firm is now known as Sigal, Johnson & Hawley. Hawley has worked for a number of Bay area architectural firms and more recently conducted his own practice in Palo Alto.

Ward W. Deems, AIA, Chancy M. Lott, AIA, and Fred DeNisco have been named associates in the firm of Albert C. Martin & Associates, Los Angeles architects-engineers. Karl Klokke has been appointed chief designer.

Richard V. Peterson has been named an associate in the Seattle architectural firm of Durham, Anderson & Freed.

new offices

Edgar B. Jensen has opened an architectural office at 714½ N. Orchard St., Boise. A graduate of the University of Idaho, he has been associated with several Boise architects.

new addresses

Worthen, Wing, Seifert & Forbes, architects-engineers, to 925 Tacoma Ave. S., Tacoma.

deaths

William H. Schuchardt, 83, Los Angeles architect who served as chairman of the City Planning Commission for five years and of the County Museum Board for three, died April 17. A native of Milwaukee, he was architectural commission chairman of the Associated Colleges at Claremont for the last 19 years.

appointments

Jack L. Campbell, project manager specializing in air base, airport and missile facilities development, has been selected a vice president of Pereira & Luckman, Los Angeles architects-engineers.

D. Stewart Kerr, Los Angeles architect, has been elected to the governing board of the School Facilities Council, nationwide organization whose purpose is to improve school design, sites, facilities and equipment.

Elizabeth Ayer, architect, has been appointed to Seattle's Board of Adjustment.

Frank E. Smith has been named business manager of Richard George Wheeler & Associates, San Diego architectural-engineering firm.

proposed commissions

The Design Standards Advisory Board has recommended the following architects for Seattle's Civic Center: James J. Chiarelli and B. Marcus Priteca, to prepare plans for converting the Civic Auditorium into a 3,000-

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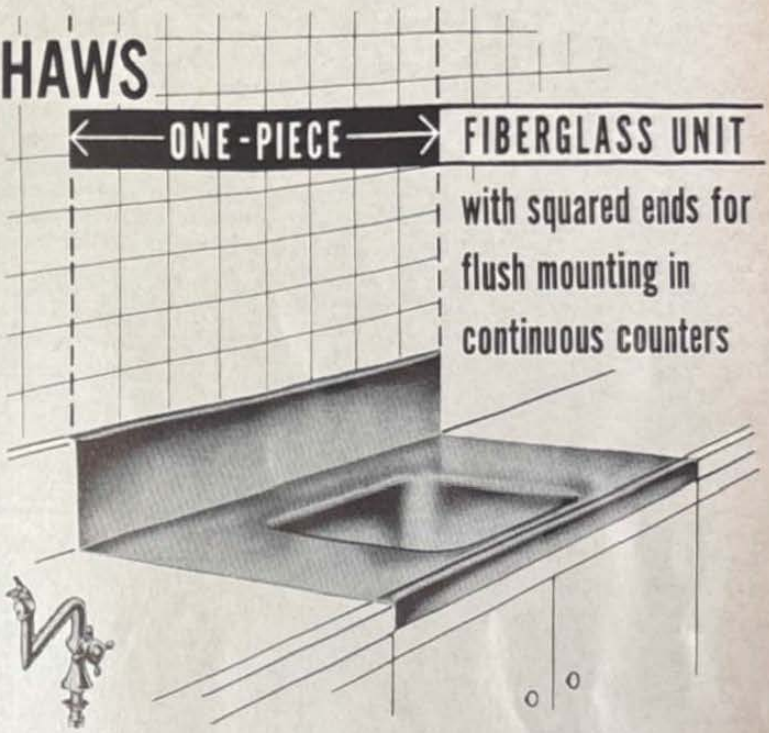

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seat concert hall; Paul Hayden Kirk, to be site planner for both the center and adjoining World Fair development; and the firm of Bassetti & Morse, to remodel the Civic Ice Arena to make it available for basketball, boxing and other sports. The board, made up of architects Perry B. Johansen, Paul Thiry, John Detlie and Robert H. Dietz, ruled themselves and their firms out of contention for any of the projects.

speakers

Griswold Raetze, San Francisco architect, addressed engineering students at City College of San Francisco last month on "The Architect as Part of a Team."

campus notes

The architectural department of Montana State College, Bozeman, next fall will become the School of Architecture in the newly named Division of Architecture and Applied Arts.

"Education for Architecture and Industrial Design," first comprehensive exhibition of all phases of student work at the University of Southern California School of Architecture, will remain on display through June 1 at the California Museum of Science and Industry.

Hospital corridor design wins rubber floor prize

Winning entry in the rubber floor design awards competition sponsored by the Rubber Manufacturers Association is a multicolored scheme installed in a new wing of McKennan Hospital, Sioux Falls, S. D.

Leonard Payne, designer for Harold Spitznagel & Associates, Sioux Falls architects, used 9-in. crosswise stripes of alternating gray and off-white rubber tile to minimize the tunnel effect of the long corridors.

BROAD STRIP in variegated colors down corridor center helps guide traffic.

School design: obligations (Cont'd from p. 12)

We must invent new solutions to old problems and to originate new solutions to new requests stemming from today's and tommorrow's program; to present in a straightforward manner, what we in our hearts honestly believe to be the right solution and then we must stand and defend it.

As educators, many of you have the responsibility of programming or writing the educational specifications. All too often this program is not one which offers challenge and stimuli to your architect. Rather it presents frustrations in trying to assemble a series of preconceived or preused elements into a workable homogeneous unit. Here your consultant should question your requests, looking behind the mere request and seeking the reasoning that prompted it. Too often this gap, this lack of real communication between designer and client, results in the hackneyed, the trite, the unimaginative solution. For from your educational specifications the first breath of life is instilled in a project. The entire success of the project for those it must serve—the student, the teacher, the administrator, the taxpayer—is established or lost at this point. For without this approach and the constant reminder of our four basic obligations, we are not fulfilling the trust we have been asked to share.

This forum is on the subject of wood schools. Just what is a wood school? A wood school is also a concrete school; a wood school is also a masonry school; a wood school is also a steel school; in summary, a wood school is concrete, masonry, steel, aluminum, glass, plastic, fiber, synthetic material, paint, ceramic and wood.

On any school a rough rule-of-thumb is that the general contract will consume approximately 70% of the construction budget; the mechanical, 20%; and the electrical, 10%. These percentages will vary but rarely over 2-3%. Therefore, it behooves us in all of our thinking to be consistent. All parts must be studied with equal care if we are to reduce cost. There is no all-swiveling magic answer to lowering building costs. Each and every part or process of the erection of the building from site work to finish hardware must be carefully scrutinized for possible savings. Every item from the design of footings to the necessity of a project sign must be studied in the light of the most for the least.

In our office we have endeavored to analyze, taking into consideration all factors, the most economical framing system it is possible to do toda Studies have been made in concrete, steel, in wood. All are within penni of each other. A simple decision change the grade of floor coveri one grade more than offsets the di ference in square foot cost of one sy tem over another. However, there a a number of factors that on paper d not immediately become evident in pure cost analysis. As we all know our jobs are bid competitively. It our desire to have competitive biddi on all of the three major contracts. addition, it is our desire to have competitive bidding situation on a phases of the work through the small est subcontract—bidding on the same or equal material, rigidly specified a to quality, grade and workmanship.

In addition to competitive biddi one should consider the availabilit of local labor, either skilled labo performing in different manufacturin plants on preassembled units or skil ed labor fabricating in the field. Bot of these two mentioned factors if ex ploited can, I believe, make for sizab savings.

On every project we have a budge It is our collective job to endeavo in every way to meet the budget. behooves us to analyze every step the building process; to continual ask, "Is this the simplest possible a proach consistent with the desir end result?" Will one member of o operation replace several members several operations? Or is the numb or operation even necessary at al Have we used our material to the u most? Have we designed using th most economical system and proce ures? Have we used the most advan ed engineering techniques to explo the maximum potentials of the pro erties of the medium we plan to bui with? Have we conceived a structu that makes for easy coordination mechanical, electrical and other fiel of construction that must be provide to complete the project? And in tur does the medium we are working wi allow us imagination to easily solv either in the shop or the field the and countless other problems?

What of design? Design that ex plores new forms to do a better job new forms that require thorough en gineering know-how, less material new forms that through the results engineering become sculpture and thing of beauty. It is my belief th creative designer's hands are not tied but rather this medium is as challeng ing as any we know today. Every job that is brilliantly conceived raises th position of the entire profession as well as the architect.

Construction News Bulletin

Vol. 64—No. 11 (PA&B) News Section of Pacific Architect and Builder May 17, 1958

Dorothy McCormick ..... News Editor
Sandra Phillips ..... News Staff
Win Romtvedt ..... Portland Correspondent
Dorene Davis ..... News Staff
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BUILDING NEWS

Washington, Oregon, Idaho, Montana and Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★GLEN VISTA MOTEL— Bend, Ore.

Contract being negotiated with Maurice Olson, Bend, by Glen Vista Motel, Bend, for construction of 5,000 sq. ft. motel at Bend. Plans by Kendall & West, architects, 1132 S.W. 12th Ave., Portland. Negotiated price somewhat less than $43,000. Stefani Lumber Co., Canby, was low bidder at $43,325, when bids were opened May 3. (Figure of $42,325 in previous report was in error).
WB 5-9. Previous report 5-7

▲PAINT, IMPROVE BUILDINGS— Bonneville Dam, Ore.

Four bids received by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for reconditioning sheathing, re-shingling, cleaning and painting various buildings at Bonneville Dam; CIVENG-35-026-58-161. Bids opened May 7. PART A—LOW BIDS: J. & K. Roofing, 237 E. Washington, Hillsboro, $11,335; Pioneer Roofing Co., 16916 S.E. Main St., Portland, $16,076. HI BID: R. W. O'Neil, Stevenson, Wash., $18,992. Government estimate, $18,478.
WB 5-9. Previous report 4-9

▲CHURCH— Coos Bay, Ore.

Four bids opened May 5 by Presbyterian Church, Union and Washington, Coos Bay, for constructing 4,500 sq. ft. one-story, frame school building. BIDS: Harold H. Grappe, Box 656, Coos Bay, $35,746; Fred Jensen, Route 2, Box 639, $42,810; S. S. and Tom E. Drake, Box 104, Coquille, $43,219; R. O. Gallia, 1776 Union, North Bend, $49,111. Architect: Robert F. Fisher, 422 Hall Bldg., Coos Bay. DM 5-9. Previous report 4-16

●SCHOOL ADDITION— Coos Bay, Ore.

Bids to be opened 8 p.m., May 28 by School District 9C, 7th and Hall, Coos Bay for constructing seven-classroom addition and remodeling existing Englewood School. Plans with Roy H. Erichsen, consulting engineer, 409 N. Fourth Court, Coos Bay. $35 deposit. Central portion to measure 112'x77½' with 24'x40' wing. Concrete and frame; stucco and cement asbestos board and batten exterior finish; built-up plywood roofing; wood sash with aluminum alternate; vinyl and asphalt tile flooring; gypsum board walls; acoustical tile ceiling; showers. DC 5-9

MECHANICAL ENGINEERING BUILDING— Corvallis, Ore.
(Estimated cost $1,242,000)

Wilmsen & Endicott, architects, 863 13th E., Eugene, have been retained by Oregon State Board of Higher Education, Dr. John Richards, chancellor, Johnson Hall, Eugene, to draw preliminary plans for a mechanical engineering building at Oregon State College. Funds will be requested from the 1959 Oregon Legislature.
WB 5-7. Previous report 3-22

■PHYSICS-CHEMISTRY BUILDING— Corvallis, Ore.

Additional planholders announced for construction of 98,199 sq. ft., five-story with partial sixth floor, reinforced concrete and window wall physics-chemistry building at Oregon State College, Corvallis. Bids will be opened 2 p.m., May 20, by Oregon State Board of Higher Education, Earl M. Pallett, secretary, (Eugene), at room 20, General Extension Division Bldg., 1633 S.W. Park Ave., Portland. Plans with Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. $50 deposit for general plans; $35, mechanical or electrical.

Additional planholders — MECHANICAL: A. G. Rushlight Co., 3900 N.W. St. Helens Road, Portland; Den Herder, Inc., Box 307, Lebanon. ELECTRICAL: Emery & Bohm, 516 N.W. 14th Ave., Portland; Lord Electric, 1034 S.E. Water Ave., Portland.
WB 5-14. Previous report 5-8

●ELEMENTARY SCHOOL ADDITIONS— Eugene, Ore.

Bids to be opened 2 p.m., May 23, by Eugene School District No. 4, 275 E. 7th Ave., Eugene, for constructing additions to Adams, Laurel Hill and Harris schools (Group 1) and Willagillespie and Washington schools (Group 2) in Eugene. Plans with Hamlin & Martin, architects, 159 W. 12th Ave., Eugene.

Frame construction with concrete floors; built-up roofing; plaster interior walls; acoustical tile ceilings; asphalt tile flooring; t&g cedar siding. DB 5-13

●FRATERNITY HOUSE ADDITIONS, ALTERATIONS— Eugene, Ore.

Bids to be opened 3 p.m., May 23, at the Phi Kappa Psi Chapter House, 729 E. 11th Ave., Eugene, for constructing new wing addition, extensive remodeling and alteration work on all three floors and in basement of the fraternity chapter house. Plans with Donald B. Parks and Frank E. Kelly, architects, 408 S.W. 2nd Ave., Portland.

Included in work are: asphalt shingles, built-up roofing; thermal insulation; new slate tile; stainless steel counter, sink; lath and plaster; millwork; weatherstripping; ceramic tile; linoleum; hardwood floors; plumbing, electrical work, fixtures. Heating calls for conversion of present sawdust-fired low pressure steam heating boiler to diesel oil firing system with new oil burner and controls, oil storage tank, additional radiation, baseboards and convectors, supply and return risers with necessary extensions, addition of two steam controls for two-zone heating for existing wing and new wing.

COMMERCIAL BUILDING— Eugene, Ore.

Construction will start soon by Robert S Graham, 690 Almaden, Eugene, on the two-story, 60'x36', lightweight concrete block A. K. Briggs Commercial Building at 1325 W. 7th Ave., Eugene. Architect: Kenneth H. Wollenweber, 765 Park E., Eugene. Concrete slab floor on first story, beams and 4" decking on second story. DB 5-9

★BANK— Eugene, Ore.

Award to Youel & Huffman, 170 W. Hilliard Lane, Eugene, $67,618 by U. S. National Bank for constructing 4,000 sq. ft. branch bank with drive-in teller facilities on northwest corner of Marion and River about 3½ mi. northwest of downtown Eugene. The firm's alternate of $2,141 for adding a heat pump was also accepted. Other bidders at May 6 opening were: Waldo Hardie & Son, 858 Pearl, $75,362; Vik Construction Co., 160 Madison, $71,480; Lamond S. Henshaw, 2260 Olive, $69,491. All Eugene. OTHER AWARDS: Cross Landscaping and Ramsey-Waite, Eugene, $2,655; Columbia Cabinet Fixture Co., Portland, $5,835. Architect: Wilmsen & Endicott, 863 E. 13th, Eugene. DB 5-10. Previous report 4-30

★ELEMENTARY SCHOOL— Eugene, Ore.

Award to Vik Construction Co., Box 3056, Eugene, $199,920, by Bethel School District No. 52, 4640 Berger Drive, Eugene, for construction of a concrete block and wood frame elementary school consisting of four individual units bordering the outside of a rectangular area, with a 56'x76' multipurpose room comprising the center of the area, on Taney St. in Eugene. Plans by Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene. Seven bids received for May 8 opening. 2ND LOW: Eldon B. Shields, 112 Ingelwood Ave., Eugene, $205,550. 3RD LOW: W. S. Hardie & Son, 858 Pearl St., Eugene, $210,839. DB 5-14. Previous report 4-26

▲STARTER SCHOOL— Eugene, Ore.

Five bids received by Eugene School District No. 540C, Clarence Hines, superintendent, 275 E. 7th Ave., Eugene, for constructing five-classroom starter school, Twin Oaks Elementary School, ½ mi. north of junction with Lorane Highway and Bailey Hill Road, Bailey Hill district, southwest of Eugene. Plans by Hamlin & Martin, architects, 159 W. 12th Ave., Eugene. Bids opened May 9. TWO LOW: Youel & Huffman, 170 Hilliard Lane, Eugene, $231,231; Vik Construction Co., Box 3056, Eugene, $231,345. HI: John M. Steinmuller, Jr., Box 3302, Eugene, $236,884.

SC 5-14. Previous report 5-8

▲HIGH SCHOOL ADDITION—Eugene, Ore.

Four bids received by Lane County School District No. 4, 275 7th Ave. E., Eugene, for construction of two classrooms, art room, health room, general shop, mechanical room additions to Cal Young Junior High School at 875 Gilham Road, north of Eugene. Plans by Wolff & Zimmer, architects, 509 Pearson Bldg., Portland. Bids opened May 9. TWO LOW: Youel & Huffman, 170 Hilliard Lane, Eugene, $81,691; Arnt Ree & Son, 113 W. 18th Ave., Eugene, $84,440. HI BID: Vik Construction Co., Box 3056, Eugene, $86,228.

SC 5-14. Previous report 5-8

★SCHOOL ADDITION— Gladstone, Ore.

Award to St. Pierre & Vermilyea, 9211 S.E. 32nd Ave., Portland, $233,324, by School District No. 115, Clackamas County, Robert Brending, clerk, Gladstone School, Gladstone, for addition of eight classrooms, gymnasium, multipurpose room and kitchen, of block masonry construction, to the grade school at Gladstone. Plans by Boyd Jossy, architect, 12730 S.E. McLoughlin Blvd., Portland. Winning contractor was second low on basic bid, but alternates exercised made him low.

WB 5-10. Previous report 4-25

●■ SCHOOL REMODELING—Heppner, Ore.

Bid opening postponed from May 13 to 8 p.m., May 16, by School District No. 1, Morrow County, Heppner High School, Heppner, for remodeling top floor of the high school building. Plans with Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. $20 deposit.

Planholders: Clark & Wells, Box 74, Hermiston; Starr Builders, 1765 S. Main St., Lebanon.

WB 5-14. Previous report 4-26

RESIDENCE— Klamath Falls, Ore.

Sub bids are being taken by Warren Parr, 1830 Hawthorne, Klamath Falls, on constructing 1,525 sq. ft. residence on Nevada and Oregon, for W. H. Totton, 104 High St., Klamath Falls. Concrete footings, foundation, concrete slab floor, possibly a dust-removed electronic unit. Architect: Nina Pence, 5241 Alva, Klamath Falls.

ZZ 5-9

STEEL BUILDINGS, UNDERGROUND CABLE, ROADS—Mahlon Sweet Airport, Ore.

Approximate bid opening date of June 23 has been set by Civil Aeronautics Administration, 5651 W. Manchester, Los Angeles, Calif., for relocation of glide slope and middle marker, Mahlon Sweet Airport near Eugene, Ore.; Proposal 4-58-1032. Plans will be available about June 9 from CAA, Box 45007, Los Angeles. Sched. 1—two prefabricated steel frame buildings, roads, parking areas, poles and steel structure, underground cable, miscellaneous electrical, painting, related work. Sched. 2—dismantle existing glide slope and middle marker structures after completion of Sched. 1.

DM 5-10

SHOPPING CENTER— McMinnville, Ore.

(Estimated cost $100,000)

Construction will start early in June on remodeling the L. A. Courtemanche building into a shopping center.

DC 5-9

●BUILDING ADDITIONS— North Bend AFS, Ore.

Bids to be opened 2:30 p.m., June 3, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for constructing Receiver Bldg. addition, Transmitter Bldg. addition, section of sanitary sewer line and security fence at North Bend Air Force Station; ENG-45-108-58-145. Plans with above office.

SP 5-13

●HANGAR— Pendleton, Ore.

Bids to be opened 7:30 p.m., May 20, by City Council, Pendleton, for constructing 32'x323' wood frame T-hangar building with spaces for ten planes (alt. for six- or eight-plane structure) at the Pendleton Municipal Airport. Plans with Wesley V. Korman, architect, 208 Raley Bldg., Pendleton.

Wood roof trusses; sheet metal exterior; structure built on existing concrete ramp; glued laminated beams over three-section, rolling wood doors.

SC 5-14

★GRADE SCHOOL— Pendleton, Ore.

Award to McCormack Construction Co., S.E. 3rd and Goodwin, Pendleton, $307,000, by Pendleton School District No. 16C, Wallace McCrae, superintendent, 220 S.W. 1st, Pendleton, for construction of a seven-classroom starter grade school on the old golf course site just north of the high school in Pendleton. Plans by Warren Weber, architect, 610 Fenton Bldg., Portland.

LB 5-14. Previous report 4-5

★OFFICE ADDITION— Portland, Ore.

(Estimated cost $85,000)

Construction starting by Teeples & Thatcher, 8850 S.E. Otty Road, Portland, on two-story, 5,000 sq. ft. wood frame office addition for Oregon-Pacific Lumber Co. and Oregon-Pacific Plywood Co., 3015 N.W. Industrial Ave. Plans by Harry L. Percy, Jr., architect, and Sidney Lathrop, engineer, 1975 S.W. 5th Ave., Portland. Rustic cedar and stone exterior; interior features native wood paneling.

WB 5-13

●METHODIST CHAPEL— Portland, Ore.

Bids will be opened 6 p.m., May 20, in office of John W. Reese, architect, and W. L. Fletcher and Donald Blair, associate architects, 1328 S.W. 14th Ave., Portland, for construction of 3,000 sq. ft. chapel and fellowship hall for Cherry Park Methodist Church at S.E. 106th Ave. and Market St. Plans with architects. $10 deposit.

Concrete slab floor; folded plate roof (alternate for glued laminated arches); cedar siding exterior; natural wood and gypsum board interior finishes; stained glass in fixed wood sash; gas-fired warm air heating system; incandescent lighting.

WB 5-9. Previous report 3-22

★BRANCH BANK— Portland, Ore.

Award to Andersen & Westfall Co., 3427 N.E. Halsey St., Portland, approximately $125,000, by Security Bank of Oregon, George Brice Jr., president, 304 S.W. 6th Ave., Portland, for construction of St. Johns Branch at N. Chicago Ave. between Jersey and Leonard streets. Plans by Roscoe D. Hemenway, architect, Cascade Bldg.

One-story, 3,300 sq. ft.; basement; off-street parking; landscaping. Vertical re-sawed cedar siding exterior; Palo Verdes stone and Byzantine mosaic tile trim; resilient floor covering; acoustical tile ceiling; formica fixtures; air conditioning.

WB 5-9. Previous report 12-28

OFFICE BUILDING— Portland, Ore.

(Estimated cost $90,000)

Construction has started by Dan Davis & Co., owner-builder, 1975 S.W. 5th Ave., Portland, on a two-story office building at S.W. 6th Ave. and College St. for lease to Phoenix Mutual Life Insurance Co. Plans by Henry L. Percy, Jr., architect, and Sidney Lathrop, engineer, 1975 S.W. 5th Ave. Parking on first floor; second floor of reinforced concrete pan construction with aluminum and sandwich panel curtain wall exterior; fire-retardant plywood sheathing on roof; combination heating and air conditioning system; light aggregate block interior partitions; post and beam framing.

WB 5-9

SHOP BUILDING ALTERATIONS— Portland, Ore.

Approximate cost $500,000)

Working drawings underway by Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland, for alterations to north shop building at Benson Polytechnic High School. Bid call scheduled for early July by Portland School District No. 1, L. J. Baker, business manager, 631 N.E. Halsey St., Portland.

WB 5-6

BETHEL A.M.E. CHURCH— Portland, Ore.

Working drawings underway by Leslie Poole, engineer, 301 Royal Bldg., Portland, for 12,000 sq. ft., one-story church for Bethel A.M.E. (African Methodist-Episcopal) Church, at N.E. 8th Ave. and Jarrett St. The Rev. Harley Akers, 2727 N.E. 10th Ave., is pastor of the church, which is using a temporary location since its church was torn down in the E-R site.

The new church will include sanctuary, multipurpose room and Sunday school rooms; probably frame construction with some brick veneer. Contract probably will be negotiated.

WB 5-6

NURSES' HOME ADDITION—Portland, Ore.

(Estimated cost $1,400,000)

Bid call expected in early June for construction of three-story, three-wing addition to the nurses' home at Emanuel Hospital, 2801 N. Gantenbein Ave. Working drawings are underway by Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland.

The additions will include auditorium-gymnasium on second floor level, and two wings containing living quarters for 190 girls, classrooms and libraries. Reinforced concrete construction with brick veneer exterior; double hung steel sash; hollow tile corridor walls with plaster on both sides, wood partitions with rock lath and plaster, glazed blocks and ceramic tile floors in toilets and shower rooms; acoustical tile ceilings; asphalt tile flooring; built-up roofing; gym will have glued laminated beams, aluminum entrance, some steel studs, and wood decking. The wings will extend along N. Stanton St., N. Graham St. and N. Vancouver Ave.

WB 5-6

CITY-COUNTY BUILDING Portland, Ore.

(Estimated cost $135,000 to $150,000)

Harry A. Herzog, architect, 410 Henry Bldg., and Raymond O. Marks, architect, 1131 S.W. King Ave., have been retained by the City of Portland, Terry Schrunk, mayor, City Hall, Portland, to redesign the floor plan of the McElroy Bldg., at S.W. 4th Ave. and Main streets, for use by the city. Money is to come from the 1958-59 fiscal budget. The Water Bureau, Traffic Safety and Planning commissions are tentatively scheduled to move into the building, which has been jointly purchased by Multnomah County.

WB 5-7. Previous report 4-

POST OFFICE RENOVATING— Portland, Ore.

(Estimated cost $210,000)

Plans are nearly complete by Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland, for renovations to the Post Office Bldg., 511 N.W. Broadway at Glisan St., Portland. Bids will be called by General Service Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle. Work will include cleaning exterior, waterproofing, interior and exterior painting, installation of acoustical tile, and modernization of heating system.

WB 5-

●DORMITORY; DINING HALL— Portland, Ore.

Bids will be opened 2 p.m., June 4, by University of Portland, A. B. Peterschmidt, controller, President's Office, Administration Bldg., 4730 N. Willamette Blvd., Portland, for construction of reinforced concrete 220-man dormitory and 152'x152' dining hall on the campus. Plans with Logan & Matthaugh, architects, 1940 S.E. 4th Ave., Portland. $100 deposit. Certified check or bond 10%. One contract will include general construction, mechanical and electrical work.

Dormitory will be two-story, plus daylight cellar, and X-shaped; game and common rooms, chapel, barber shop, hobby room, projector space, storage, washing and drying space and boiler room in cellar; rooms will have wash basins, built-in closets, and some will have private baths; brick veneer exterior; marble trim on entry; aluminum windows and doors; flat slab built-up roof

asphalt and vinyl tile flooring; steel stairways enclosed in glass with aluminum frames; chapel to have marble wainscoting, wood paneling, acoustical ceiling and organ chamber; oil-fired steam heating plant. One-story and basement dining hall includes three dining halls, 75'x80' kitchen with bakery, solids department, three serving lines, dishwashers, offices and walk-in refrigerator; additional dining hall in basement; brick veneer exterior; arch rib trusses with striated decking in main area; cathedral glass upper windows; terrazzo tile flooring; plaster walls; glazed structural wall units and quarry tile floors in kichen; sound system; heating plant. Small building for charcoal broiling.

WB 5-10. Previous report 1-25

★**POSTAL STATION—** **Portland, Ore.**

Award to Waterman & Potter, 1617 S.W. Delph St., Portland, approximately $100,000, by Walter A. Martin, owner, 3289 N.E. Klickitat St., Portland, for construction of one-story, 6,341 sq. ft. Albina Station of Portland Post Office. Building will be leased to the Post Office Department, S. G. Schwarz, regional director, Box 3703, Portland. Building, located at N.E. 8th Ave. and Schuyler St., will include 300 sq. ft. apron and 6,625 sq. ft. of paved parking and maneuvering area; roman brick trim; glare-reducing glass; fluorescent lighting; natural gas heating; separate finance and box lobbies. WB 5-10

★**WAREHOUSE, OFFICE—Prairie City, Ore.**

Award to A. E. Stafford, Springfield, $19,-268, by U.S. Forest Service, 729 N.E. Oregon St., Portland, (Box 4137), for construction of combination office and warehouse building at Prairie City Ranger Station, Malheur National Forest, Grant County, Ore.; Bid No. 315. WB 5-10. Previous report 5-8

●**SEMI-AMBULATORY COTTAGE—** **Salem, Ore.**

Bids to be opened 2 p.m., May 27, by Oregon State Board of Control, 124 Capitol Bldg., Salem, for constructing two-level concrete 105-patient capacity semi-ambulatory cottage, Oregon Fairview Home, east of Salem. Plans with Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene.

Concrete and concrete cavity wall exterior; honeycomb curtain walls with copper covered wood framing system (alt. for flat plastic glazing); built-up roofing; concrete block partitions, some steel stud and plaster walls; acoustical plaster ceilings; asphalt tile, ceramic tile, quarry tile flooring; forced air zoned volume heater system connecting to existing steam supply; laundry chute and dumbwaiter in kitchen. DB 5-13

★**CHURCH—** **Salem, Ore.**

Award to Smith & Nelson, 1198 S. 20th, Salem, by Peace Lutheran Church, Howard Peterson, pastor, Glen Creek Road and Parkway Drive, Salem, for construction of a one-story 3,602 sq. ft. church, including fellowship hall and educational wing to be located at the Glen Creek Road and Parkway Drive site in Salem. SC 5-14

●**PRE-PLACEMENT COTTAGES—** **Salem, Ore.**

Bids to be opened for the second time at 2 p.m., May 22, by Oregon State Board of Control, 124 Capitol Bldg., Salem, for constructing two frame pre-placement cottages, each one-story with 3,600 sq. ft. area, Oregon Fairview Home, east of Salem. Plans with Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene. Bids previously opened April 15 and rejected.

DB 5-13. Previous report 4-26

●**DORMITORY—** **Salem, Ore.**

(Estimated cost $550,000)

Bids will be opened 2 p.m., May 21, by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem, for construction of two-story and basement, reinforced concrete dormitory for 72 girls at Hillcrest School for girls near Salem. Plans with Roald, Schmeer & Harrington, architects, 1104 Portland Trust Bldg., Portland. $50 deposit. Certified check or bid bond 10%.

Basement includes storage, sewing rooms, recreation room and dining rooms; kitchen for entire institution; four sections each with space for 18 girls; laundry and bath facilities for each section. Architectural concrete exterior with some brick facing; built-up roofing; security steel windows; rubber, asphalt and quarry tile flooring; plaster walls; plaster and acoustical tile ceilings; tunnel connecting with existing heating. WB 5-9. Previous report 4-1

■**SCHOOL REMODELING—St. Helens, Ore.**

Additional planholders announced for remodeling and additions to existing high school for use as junior high. Bids will be opened 8 p.m., May 20, by School District No. 502C, Columbia County, L. Ione Mankins, clerk, High School, St. Helens. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. $50 deposit.

Additional planholders: Walker & Green, Route 3, Box 207, Oregon City; Gene Settergren, 1625 S.E. Woodward St., Portland.

WB 5-14. Previous report 5-7

▲**ELEMENTARY SCHOOL—** **St. Paul, Ore.**

Low bidder was Anfelt B. Hansen, 4115 S.E. Ogden, Portland, on a basic bid of $135,800 for constructing six-classroom and library, concrete and brick, St. Paul Parochial Elementary School. Bids were opened May 2. Architect: Louis Schmerber, 3085 N. River Road, Salem. 2ND LOW: C. W. and Willis A. Hill, Box 682, Salem, $139,000.

DM 5-10. Previous report 4-30

★**HOSPITAL—** **The Dalles, Ore.**

Award, pending federal approval, to James S. Hickey, Inc., 523 S.E. Stark St., Portland, $1,045,448 (basic and additive alternates), by The Dalles General Hospital, T. J. Carson, president of board of trustees, The Dalles, for constructing 75-bed, four-story, reinforced concrete hospital on 14½-acre site off Dry Hollow Road, The Dalles. Five bids received May 5 at Wasco County Courthouse, The Dalles. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Port-

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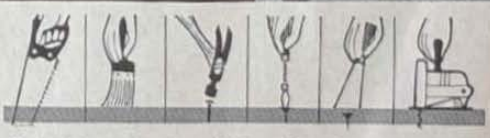

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land. 2ND LOW (basic): Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $1,035,000. HI (basic): O. R. Wayman, 3125 N.W. Front Ave., Portland, $1,058,427.
WB 5-9. Previous report 4-25

GANG MILL— Toledo, Ore.
(Estimated cost over $300,000)

Construction will start soon by company crews on a new gang mill at the Toledo Lumber Division of Georgia Pacific Corp., Robert B. Pamplin, president, Equitable Bldg., Portland. Plans by the company's engineering staff. The mill will be in the vicinity of the existing waster burner, which will be removed. It will include a gang saw, edger, trimmer, resaw and mechanical barker, and will be the whole-log type, producing 80,000 bd. ft. of lumber per day.
WB 5-14

▲RANGER RESIDENCES— Umatilla County, Ore.

Seven bids received by U.S. Forest Service, regional supply officer, 729 N.E. Oregon St., (Box 4137), Portland, for construction of two, one-story, 50'x42' frame Ukiah Ranger Station residences, Umatilla County, Ore.; Bid No. 323. Bids opened May 12. TWO LOW BIDS: Delsman & Weir, Vallejo, Calif., $36,900; Olaf & Ray Leagjeld, Bend, $41,500. HI BID: Clark & Wells, Hermiston, $50,696.
WB 5-14. Previous report 4-23

KITCHEN— Woodburn, Ore.
(Estimated cost $200,000-$250,000)

Whitney, Hinson & Jacobsen, architects, Failing Bldg., 618 S.W. 5th Ave., Portland, have been retained by Oregon State Board of Control, Capitol Bldg., Salem, to prepare preliminary plans for a new kitchen to serve MacLaren School for Boys at Woodburn, near Salem. Funds will be asked from the 1959 legislature.
WM 5-14

MacLAREN SCHOOL COMPLETION— Woodburn, Ore.

Bid call will be issued in June by Oregon State Board of Control, William C. Ryan, secretary, room 124, Capitol Bldg., Salem, for one-story, reinforced concrete addition to the MacLaren School for Boys at Woodburn, near Salem. Working drawings underway by Whitney, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland.

Addition will complete fourth side of quadrangle with auditorium, serving kitchen, dining area and office area. Concrete slab floors; concrete walls; steel sash; glued laminated beams; built-up gravel roofing; concrete block and concrete partitions, exposed and painted; suspended acoustical ceilings; some plaster; rubber tile flooring; hot water heating from existing system; fluorescent and incandescent lighting, movie projector; wide angle screen.
WB 5-14. Previous report 9-17

WASHINGTON

COMMUNITY HOSPITAL—Aberdeen, Wash.

Bids will be advertised soon by Board of Directors of Grays Harbor Community Hospital, Paul Bloomquist, chairman, for construction of a reinforced concrete, 58,200 sq. ft., L-shaped hospital on Swietzer Hill, 6th and Saturday Way, Aberdeen. Working drawings have been completed by John W. Maloney, architect, 754 Central Bldg., Seattle. Ronald Orr is administrator of the 100-bed hospital, which will have operating rooms, kitchen facilities, no laundry. One wing will have three stories and basement, the other two stories.

Flat built-up roof, tar and gravel surfaced, 2" rigid insulation in roof; exposed architectural concrete exterior; metal stud, lath, plaster partitions; pan-construction floors; asphalt tile, (alt., vinyl asbestos) quarry tile, ceramic tile flooring; projecting steel windows (alt., aluminum); stainless steel flashing; fluorescent, incandescent lighting; mechanical ventilation; oil-fired low-pressure boiler plant, small high-pressure generator, conductors; 100-car asphaltic concrete parking area. PD 5-13. Previous report 3-15

OFFICE BUILDING— Bellevue, Wash.

Preliminary plans are underway by Mithun, Ridenour & Cochran, architects, 34 104th N.E., Bellevue, for an 8,000 sq. ft., steel frame fireproof office building on 100th Ave. N.E., adjoining the shopping square in Bellevue.
PD 5-6

CLUBHOUSE, SWIMMING POOL— Bellevue, Wash.
(Estimated cost $100,000)

Construction will start this summer on the 35'x90', two-story Lake Hills Clubhouse, and on a 42'x75' heated swimming pool, on the corner of Lake Hills Blvd. and 154th N.E., Bellevue. Working drawings are nearing completion by Rushmore & Woodman, architects, J. S. Ditty Bldg., Bellevue. Plans for pool involve gunnite applied concrete over reinforcing steel frame. Clubhouse includes concrete block; glued laminated beams; wood frame construction; built-up roof; cedar siding; metal operating sash, glass stopped in wood.
PD 5-6

★DISTRIBUTION PLANT (Refrigeration)— Bellevue, Wash.

Award to Lewis Refrigeration Co., 429 Westlake N., Seattle (amount undisclosed) by Safeway Stores, Inc., for installation of ammonia-and-freon refrigeration plant at the seven-building, 500,000 sq. ft., distribution center now being built in Bellevue. General contract is held by Anderson & Westfall, Inc., Box 5084, Portland.
DC 5-6. Previous report 3-4

HOME ECONOMICS ROOM REMODELING— Bellingham, Wash.

Richard Stradling, architect, Herald Bldg., Bellingham, has been retained by Bellingham School District, Gordon Carter, superintendent, Roeder School, Bellingham, to prepare plans for remodeling home economics room, Bellingham High School.
ET 5-8

★CARL COZIER SCHOOL ADDITION— Bellingham, Wash.

Award to Pearson Construction Co., Box 632, Bellingham, $30,606, by Bellingham School District No. 501, Gordon Carter, Superintendent, Roeder School, Bellingham, for construction of a one-story and no basement, 2,500 sq. ft., poured concrete, two-classroom addition to Carl Cozier Elementary School, 1330 Lincoln, Bellingham. Plans by Galen Bentley, architect, 1130 State St., Bellingham. LB 5-14. Previous report 5-2

●BAKE SHOP ALTERATIONS— Bremerton, Wash.

Bids to be opened 11:30 a.m., P.S.T., May 22, by Department of Navy, Bureau of Yards and Docks, Bldg. 78, Puget Sound Naval Shipyard, Bremerton, for relocation of equipment, installation of quarry tile floor, painting, concrete work, mechanical and electrical work in the bake shop at the shipyard; Spec. 12200/58. Plans with above address.
DM 5-13

●ARMORY ADDITION— Camas, Wash.

Bids to be opened 3 p.m., June 4, by Clyde J. Fenn, Jr., supervising engineer, Department of General Administration, 218 General Administration Bldg., Olympia, for constructing addition to the Washington National Guard armory at Camas. Plans with engineering office, Department of General Administration. $20 deposit.
SP 5-13

▲BASEMENT ALTERATIONS— Chehalis, Wash.

Bids received by General Services Administration, room 126, Federal Office Bldg., Seattle, for basement alterations in the U.S. Post Office, Center St. and Cascade Ave., Chehalis; Proj. No. SEA-1110. Bids opened May 9. LOW BID: Moore Construction Co., 2000 15th St., Chehalis, $21,964. HI: Palmer Shops, 538 N. 78th, Seattle, $25,756.
PD 5-13. Previous report 4-29

LUTHERAN CHURCH— Clarkston, Wash.

Fund drive is underway by Our Savior's Lutheran Church, Rev. Norman Prestbye, pastor, 4th and Sycamore Sts., Clarkston, to raise $50,000 for construction of a new church on 13th St. between Chestnut and Libby Sts. in Clarkston.
DR 5-8

CHURCH— Colfax, Wash.

Bids will be called soon by Rev. Duncan R. McCoy, pastor of Church of the Good Samaritan, Colfax (mailing address 1200 Stadium Way, Pullman), for constructing new church at Colfax. Plans underway by Edwin W. Molander & Associates, architects, N. 5103 Division, Spokane.
MR 5-9

★EXTERIOR, INTERIOR PAINTING— Coulee Dam, Wash.

Award to Powell & Beasley, Coulee Dam, $3,673, by Bureau of Reclamation, Ephrata, for Sched. 2 for exterior painting of 30 buildings at Coulee Dam. Sched. 1 was awarded earlier.
DM 5-6. Previous report 4-29

●ELEMENTARY SCHOOL— Dupont, Wash.

Bids will be opened 2 p.m., June 3, by Housing and Home Finance Agency, Community Facilities Administration, Seattle Area Office, 450 Federal Office Bldg., 909 1st Ave., Seattle, for construction of a one-story, 31,648 sq. ft., wood frame, concrete and masonry, 14-classroom cluster-type elementary school on Fort Lewis reservation, for DuPont-Fort Lewis School District No. 7, Box 127, DuPont. Plans with Lea, Pearson & Richards, architects, 240 Stadium Way, Seattle. $7.50 charge.
SC 5-14. Previous report 5-9

●CHURCH— Edmonds, Wash.

Bids will be opened 2 p.m., May 27, by St. Alban's Episcopal Church, Edmonds Highway, Edmonds, in office of Miller & Morris, architects, 404 Main St., Edmonds, for construction of first unit of a church plant at 84th W. and 213th S.W., Edmonds, to include worship area and parish hall which will double as classrooms. The 6,000 sq. ft. frame structure will have glued laminated trusses, cedar siding, shingle roof. Select list of bidders.
RK 5-9

●PHYSICAL EDUCATION BUILDING— Ellensburg, Wash.
(Estimated cost $1,250,000)

Bids will be opened for the second time at 5 p.m., May 21, by Board of Trustees, Central Washington College of Education, room C-130, Classroom Bldg., Ellensburg, for construction of a 390'x150' physical education building with a 100'x100' wing housing a swimming pool. Bids were opened previously on May 6, and rejected. Revised plans and specifications with Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. $100 deposit. Certified check, cashier's check, bid bond, 5%. Bids may be for one contract, or separate bids for general, mechanical, electrical contracts, and are to be mailed to Kenneth Courson, business manager, at the college.

Central portion of building to be two-story; remainder, one-story; tilt-up concrete panels; glued laminated roof trusses suspended by bridge cable from prestressed outward-tilted concrete pylons; built-up roofing, tar and gravel surfaced; plastic skylights; aluminum sash; steel entry, interior doors; concrete block partitions; acoustical tile, plaster ceilings; colored concrete, ceramic tile, maple flooring; rock wool insulation in roof; vitro-glaze wall surfaces in restroom areas; hot water heating with volume heaters. Concrete swimming pool, 42'x75' included in contract. Football and baseball fields, track and tennis court will be constructed later under separate contracts.
PD 5-13. Previous report 5-5

HOSPITAL RENOVATION— Ellensburg, Wash.

Doudna & Williams, architects, Miller Bldg., Yakima, have been retained by Kittitas County Commissioners, Courthouse, Ellensburg, to prepare plans for renovation of Sorenson Memorial Hospital, Ellensburg. Work will consist of increasing window areas, asphalt tile flooring, painting, installation of handrails in corridors, renovation of heating plant.
IG 5-8

★AIR CONDITIONING, ROOFING— Fairchild AFB, Wash.

Awards announced by U.S. Air Force, Fairchild AFB, for the following: 1—installing air conditioning, Bldg. 2285, Inv. 58-88, Brown-Johnston Electric Co., 118 N. Lincoln.

$5,390. 2—modification of administration wing maintenance control, Bldg. 2050, Inv. 58-100, Anton Popp, 2710 E. Garland, $15,200; 3—roof repairs, Inv. 58-93, Hefte Construction Co., 11807 E. Trent, $26,500. All Spokane.

★HOUSING ANNEX PAINTING—
Fairchild AFB, Wash.

Award to Springer Paint Co., W. 2104 13th, Spokane, $15,239, by U.S. Air Force, Fairchild AFB, for painting Spokane (Garden Springs) family housing annex; Inv. No. 58-88. Bids opened April 30.
LL 5-7. Previous report 4-9

★PAINTING, WAINSCOTING—
Fairchild AFB, Wash.

Award to Richard Webber Painting, 917½ Mallon, Spokane, $26,856, by U.S. Air Force, Fairchild AFB, for interior and exterior painting and installation of hardboard wainscot in seven barracks and exterior painting of mess hall No. 644 at base; Inv. No. 58-84. Bids opened April 8.
LL 5-7. Previous report 3-28

●LIGHTING FIXTURES—Fort Lewis, Wash.

Bids to be opened 1:30 p.m., May 22, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for replacing lighting fixtures in nave of Chapel No. 9, Fort Lewis; Inv. No. 58-226. Plans with above office. Bid bond 20%. SP 5-13

▲HEADQUARTERS BUILDINGS—
Fort Lewis, Wash.

Bids received May 8 by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of four 2,578 sq. ft. concrete masonry battalion headquarters buildings and outside utilities at Fort Lewis; ENG-45-108-58-77.

Fourteen bids received. LOW BIDS: Concrete Construction Co., Box 96, Tacoma, $165,700. Abser Construction Co., 1109 25th S.E. Puyallup, $167,569. HI BID: Korsmo Bros., 5944 Lake Grove Ave. S.W., Tacoma, $211,299. Government estimate $187,182.
LB 5-9. Previous report 4-29

★WIRING, FURNACE SETTINGS—
Fort Lewis, Wash.

Awards announced by Department of the Army, Fort Lewis, for replacement of furnace settings in ten boilers in heating plants Nos. 9 and 10, Bldg. Nos. 3132-P and 3292-P (Inv. No. 58-170), and for replacement of defective wiring in temporary barracks (Inv. No. 58-176) at Fort Lewis. Bids opened April 28. AWARDS—58-170: Glenn E. Wixom, 232 S. 182nd, Seattle, $32,056. INV. 58-176: Eckroth Electric Co., 7915 A St., Tacoma, $24,288. SP 5-3. Previous report 4-18

★OIL BURNERS, WATER HEATING—
Fort Lewis, Wash.

Award to Stoker Engineering Co., 4320 S. Tacoma Way, Tacoma, $7,064, by Department of the Army, Fort Lewis, for installation of oil burners in heating systems and improvement of domestic water heating facilities in dispensaries at Fort Lewis; Inv. No. 58-155. Bids opened April 18.
SP 5-3. Previous report 4-10

★ROOF REPAIR— Fort Lewis, Wash.

Award to Mark Mitchell Roofing Co., Inc., 662 E. 11th, Tacoma, $1,017, by Department of the Army, Fort Lewis, for recoating and repair of roof on Bldg. 2238 at Fort Lewis; Inv. No. 58-153. Bids opened April 15.
SP 5-3. Previous report 4-4

★ASBESTOS-CEMENT SHINGLE SIDING—
Fort Lewis, Wash.

Award to ABC Roofing and Siding, 41 Hinds, Seattle, $11,206, by Department of the Army, Fort Lewis, for re-siding of Fort Lewis Inn, Bldg. 30-GP, with asbestos-cement shingles; Inv. No. 58-172. Bids opened April 28. SP 5-3. Previous report 4-17

●DINING HALL— Geiger AFB, Wash.

Bids to be opened 2 p.m., May 23, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for constructing concrete masonry 157'x130' airmen's dining hall with wood frame interior partitions, steel roof framing and built-up roofing at Geiger AFB; ENG-45-108-58-129. Plans with above office.

Special features include food service equipment, refrigerated storage rooms, and heating, ventilating, refrigeration and electrical equipment and appurtenances. Area of 14,075 sq. ft. Outside utilities—site grading, concrete sidewalks, asphaltic concrete driveways, electrical, water and sanitary sewer connections. SP 5-14. Previous report 5-3

●DORMITORIES— Geiger AFB, Wash.

Bids to be opened 2 p.m., P.S.T., May 21, by Corps of Engineers, 4735 E. Marginal Way, Seattle, for constructing two three-story, concrete frame and masonry, airmen's dormitories at Geiger AFB, having approximately 41'x206' overall dimensions; ENG-45-108-58-132. Parking area with asphaltic concrete pavement and concrete curbs is included together with site development and utility services to the buildings. Completion time 360 calendar days. Plans with above office.
DM 5-10. Previous report 5-3

ELEMENTARY SCHOOL—Gig Harbor, Wash.
(Estimated cost $235,000)

Preliminary plans are underway by Worthen, Wing, Seifert & Forbes, architects and engineers, 925 Tacoma Ave. S., Tacoma, for Artondale Elementary School, to be located about three mi. south and one mi. west of Gig Harbor, on Artondale Road. Bids may be called in late summer by Peninsula School District No. 401, Star Route, Box 575, Gig Harbor. PD 5-9

CATHOLIC CHURCH— Gig Harbor, Wash.

Bids will be called about June 1 by Catholic Archdiocese of Seattle. Most Rev. Thomas A. Connolly, archbishop, 907 Terry Ave., Seattle, for construction of St. Nicholas Catholic Church in Gig Harbor. Working drawings are nearing completion by E. L. Mills & Associates, architects, 308 S. Tacoma Way, Tacoma. PD 5-6

REMODEL FOUR SCHOOLS—
Gig Harbor, Wash.
(Estimated cost $550,000)

Bids will be called in the early Fall by Peninsula School District No. 40, C. H. Howe, superintendent, Star Route, Box 575, Gig Harbor, on remodeling and altering four schools. Architects for the various jobs: Charles Rueger & Associates, 225 S. Tacoma; E. L. Mills & Associates, 308 S. Tacoma; Worthen, Wing, Seifert & Forbes, 9152 Gravelly Lake Drive, Tacoma. DM 5-10

ADMINISTRATION BUILDING—
Kennewick, Wash.
(Estimated cost $100,000)

Carson, Kesterson & Moe, architects, 128 B. Vista Way, Kennewick, have been retained by Kennewick School District No. 17, Hugh Jacobs, assistant superintendent, 500 S. Dayton, Kennewick, to prepare plans for a one-story with partial basement, 8,158 sq. ft. administration building for the district. It is hoped bids may be issued by fall. SC 5-6

▲HIGH SCHOOL ADDITION—
Kirkland, Wash.

Seven general, seven mechanical and eight electrical bids received by Lake Washington School District No. 414, 10903 53rd St. N.E., Kirkland, for addition and alterations to Lake Washington High School, Kirkland. Architects: Mallis & DeHart, 631 Lyon Bldg., Seattle. Bids opened May 8. Basic figures given. GENERAL—LOW BIDS: Venne Beauchamp, Box 637, Everett, $342,000; Riley Pleas, Inc., 522 19th N., $363,528. HI: Korsmo Bros., 5944 Lake Grove Ave. S.W., Tacoma, $449,473. MECHANICAL—LOW BIDS: Bellevue Plumbing and Heating Co., 10149 Main St., Bellevue, $96,080; Sager Construction & Repair, Box 847, Everett, $101,913. HI: L. E. Ballou & Son, 5803 14th N.W., $116,156. ELECTRICAL—LOW BIDS: Watts Electric, 1133 Market St., $44,989; Northwest Electric, 420 Yale N., $45,375. HI: Lloyd Larsen Electric, 2306 4th Ave., $55,252. Of Seattle except as noted.
PD 5-10. Previous report 4-30

●RAZING SCHOOL— Littlerock, Wash.

Bids to be opened 8 p.m., June 5, by Littlerock School District No. 332, Littlerock School Bldg., Littlerock, for razing the existing school. Sched. 1—salvage building and fixtures and equipment not being used in new school or Sched. 2—salvage the building only. Plans with Richard L. Burrell, Box 51, Littlerock. DC 5-10

●INCINERATOR REPAIR—
Longmire, Wash.

Bids to be opened 2 p.m., P.S.T., June 3, by National Park Service, Mount Rainier National Park, Longmire, for repair of incinerator at the park; Inv. No. 26-137. Plans with above office. Bid guarantee 20%. Work consists of removing brick and brick hanging structures within the burning chamber of incinerator; installation of new hanging structures and new brick. Completion time 45 days. DM 5-13

●POWER BUILDING—Makah AFS, Wash.

Bids to be opened 2:15 p.m., June 3, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for constructing 3,000 sq. ft. power building including installing generator sets and cooling systems, fuel tanks, fence and utilities at Makah Air Force Station; ENG-45-108-58-137. Plans with above office. SP 5-13

●GAP FILLER FACILITY—
Mazama AFS, Wash.

Bids will be opened 2:15 p.m., P.S.T., May 27, by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for a Gap Filler Facility at Mazama Air Force Station, Wash.; ENG-45-108-58-130. Project involves constructing 1,604 sq. ft. base communication building with concrete foundation and floor slab; concrete masonry cavity type walls; steel roof joists with metal deck; insulation and built-up roofing; ventilation and heating system; reinforced concrete tower; install 39,000 gal. fuel tank.

Quantities: 15,000 c.y. common excavation; 45,000 c.y. rock excavation; 18,000 c.y. surface course; 220 sq. yd. riprap; 3,600' of 18", 24' of 24", and 56' of 36" culvert pipe; 160' guard rail; improving 12.5 mi. existing road; constructing 2.5 mi. new road. Completion time 150 calendar days. LB 5-10

●BUILDING ADDITION, MODIFICATIONS— McChord AFS, Wash.

Bids to be opened 2:15 p.m., May 28, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for constructing addition to Receiver Bldg., modification to Transmitter Bldg., including ventilation system, interior electrical system and direct burial cable, and constructing water line at McChord Air Force Station; ENG-45-108-58-149. Plans with above office. SP 5-13

RESIDENCE— Mercer Island, Wash.

Bids may be called late in May by Donald W. Exner, owner, for construction of a one-story and daylight basement, 1,500 sq. ft. residence on Mercer Island. Working drawings are nearly completed by Wortman, Wilkins & Ellison, architects, 818 2nd Ave., Seattle. PD 5-10

★CHURCH— Mercer Island, Wash

Award to Roxbury Construction Corp., 616 Mercer, Seattle, $176,670, by Emmanuel Episcopal Church, 6039 S.E. 28th at W. Mercer Way, Mercer Island, for constructing a 6,000 sq. ft. church building and a 5,800 sq. ft. office-classroom building connected by the sacristry, at S.E. 44th St. and 86th Ave. S.E., Mercer Island. Plans by Waldron & Dietz, architects, 215 8th Ave. N., Seattle.
LB 5-10. Previous report 5-2

★ELEVATOR SHAFT— Montesano, Wash.

Award to Fraser Construction Co., 314 W. Wishkah, $20,585, by Grays Harbor County Commissioners, Courthouse, Montesano, for construction of an elevator shaft and modification to existing boiler room in the Courthouse at Montesano. Plans by Robert F. Street, architect, Lafayette Bldg., Aberdeen.
LB 5-14. Previous report 4-24

CAPEHART HOUSING—Moses Lake, Wash.

Plans and specifications are now available at Military Air Transport Service, Scott AFB, Illinois, for an estimated $3,000,000 job

of building 200 Capehart housing units near Larson Heights Elementary School, Moses Lake. MH 5-9

MILL— Mt. Spokane, Wash.

A new corporation, Satellite Uranium Co., St. John, has leased land near Mt. Spokane and plans to construct a plant to mill, smelt and prepare ores and metals. MH 5-9

● JUNIOR HIGH SCHOOL ADDITIONS— Mountlake Terrace, Wash.
(Estimated cost $700,000)

Bids to be opened 3 p.m., May 28, by Edmonds School District No. 15, Box 308, Edmonds, for 137'x78' classroom addition and 90'x90' library addition to east and west wings of existing school, 170'x125' physical education and music building, 100'x42' vocational unit which will house shop and boiler, at Mountlake Terrace Junior High School, 228th S.W., Mountlake Terrace. Plans with William Arild Johnson & Associates, architects, 2506 Broadway, Everett. Separate bids on general, mechanical, electrical. $40 deposit on general, $25 mechanical, $25 electrical. Certified check, cashier's check or bid bond 5%.

All buildings will have total area of 48,000 sq. ft.; all will be one-story; concrete footings, foundation; poured concrete and frame wall; frame and concrete slab floor; timber and steel supporting structures; mill roof; frame partitions; aluminum sash; brick and siding exterior, plaster interior wall finish; fir exterior, fir and birch interior trim; plaster with gypsum lath partitions; asphalt tile, ceramic tile and maple flooring; plaster acoustical ceiling; wood, steel, aluminum doors; folding doors; blackboards; blanket insulation; soundproofing; indirect, fluorescent lighting; warm air heating, oil fired; forced air ventilating system. DC 5-9

● COMMUNICATION BUILDING, UTILITIES, ROAD—Okanogan AFS, Wash.

Bids to be opened 2 p.m., May 28, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for constructing Gap Filler Facility, including 1,604 sq. ft. base communication building having concrete masonry cavity type walls, concrete tower, fuel oil storage tank, road repair and new road, and riprap, Okanogan Air Force Station; ENG-45-108-58-143. Plans with above office. SP 5-13

★ARMORY— Okanogan, Wash.

Award to Peter J. Young & Son, E. 1211 Columbia, Spokane, $179,229, by Department of General Administration, Clyde J. Fenn, Jr., supervising engineer, 218 General Administration Bldg., Olympia, for construction of a reinforced concrete National Guard armory at Okanogan. Plans by Architects Ralph J. Bishop, W. 1526 Riverside, and George C. Ritter, Hyde Bldg., both Spokane. DE 5-14. Previous report 4-11

● RESIDENCES, GARAGE—Olympia, Wash.

Bids will be opened 2 p.m., May 27, by State Department of Fisheries, Milo Moore, director, General Administration Bldg., room 417-H, Olympia, for construction of one residence and one garage at the Skykomish Salmon Hatchery, Startup, and one residence at the Willapa Salmon Hatchery, 12 mi. east of Raymond. Plans with above office and with Puget Sound Regional Office, 4015 20th Ave. W., Seattle. $2 deposit. SC 5-14

★LIGHTING FIXTURES— Olympia, Wash.

Awards announced by Department of General Administration, Clyde J. Fenn, Jr., supervising engineer, 218 General Administration Bldg., Olympia, for furnishing lighting fixtures for interior completion of the General Administration Bldg., and for installation of lighting fixtures on the third and fourth floors of the General Administration Bldg., State Capitol Group, Olympia. AWARDS—FIXTURES: Westinghouse Electric Co., Rust Bldg., Tacoma, $17,578 (low bidder General Electric Supply Co., Seattle, $14,259, disqualified). INSTALLATION: Olympia Electric Co., 504 E. 5th, Olympia, $4,875. DE 5-14. Previous report 4-17

● SUPPORT BUILDING—Paine AFB, Wash.

Bids will be opened 2 p.m., P.S.T., June 3, by U.S. Air Force, Procurement Office, Paine AFB, for furnishing equipment and materials for the modification, including plumbing and electrical work, of the Canine Support Building No. 820, Paine Air Force Base; Inv. No. 45-602-58-91. Plans with above office. HH 5-10

● GYPSUM BOARD, ASPHALT TILE FLOORING, PAINTING—Paine AFB, Wash.

Bids will be opened 2 p.m., May 29, in procurement office, Paine AFB, for providing new gypsum board wall covering, asphalt tile on floor area, concrete porch and railing for entrance and painting interior with three coats, Bldg. 125, Paine AFB; Inv. No. 58-95. Plans with above office. Bid bond 20%. HH 5-13

● TILE, PARTITIONS, PAINTING, DUCT WORK— Paine AFB, Wash.

Bids to be opened 2 p.m., P.S.T., May 21, in Base Procurement Office, Paine AFB, for relocating ducts, providing new partitions, placing acoustical tile, painting interior of Bldg. 512 on the base; Inv. No. 45-602-58-94. Plans with above office. HH 5-13

● BUILDING MODIFICATION— Paine AFB, Wash.

Bids will be opened 2:30 p.m., P.S.T., June 3, by U.S. Air Force, Procurement Office, Paine AFB, for modification of AACS, Bldg. 201, Paine Air Force Base, Wash.; Inv. No. 45-603-58-92. Plans with above office. HH 5-10

● BUILDING MODIFICATION— Paine AFB, Wash.

Bids will be opened 2 p.m., P.S.T., June 4, by U.S. Air Force, Procurement Office, Paine AFB, for modification of Bldg. No. 431, Paine Air Force Base; Inv. No. 45-602-58-93. Plans with above office. HH 5-10

● ARMORY EXPANSION— Poulsbo, Wash.

Bids to be opened 3 p.m., June 11, by Clyde J. Fenn, Jr., supervising engineer, Department of General Administration, 218 General Administration Bldg., Olympia, for Washington National Guard armory expansion at Poulsbo. Plans with engineering office, Department of General Administration. $20 deposit. SP 5-13

■ VETERINARY CLINIC ADDITION— Pullman, Wash.

Additional planholders announced for constructing two-story reinforced concrete veterinary clinic addition at Washington State College. Bids will be received until 1:30 p.m., May 23, in room 303, Administration Bldg., WSC, Pullman, and will be opened at 2 p.m. that day in room 244, Todd Hall, campus. Plans with Culler, Gale, Martell & Norrie, architects, 615 Realty Bldg., Spokane. Plans may also be examined at offices of Decker, Christensen & Kitchin, associate architects, 1411 Fourth Avenue Bldg., Seattle.

Additional planholders — GENERAL: H. Halvorson, Inc., Box 6, Yardley; James L. Barnes Construction Co., 723 Central Bldg., Seattle. MECHANICAL: Lewiston Plumbing and Heating, 208 5th, Lewiston, Idaho; Arnold & Jeffers, Box 2192, Spokane; Standard Plumbing and Heating, E. 1801 Sprague Ave., Spokane. ELECTRICAL: Briggs Electric, N. 1303 Monroe St., Spokane. MH 5-13. Previous report 5-8

MEDICAL CLINIC— Puyallup, Wash.
(Estimated cost $100,000)

Preliminary drawings will be started soon by Worthen, Wing, Seifert & Forbes, architects and engineers, 925 Tacoma Ave. S., Tacoma, for a four-doctor medical clinic near the fair grounds in Puyallup. PD 5-9

PHYSICAL EDUCATION BUILDING— Puyallup, Wash.
(Estimated cost $500,000)

Bids will be called late in May by Puyallup School District No. 3, Paul B. Hanawalt, superintendent, 605 W. Main, Puyallup, for construction of the proposed 180'x148'x35' physical education building at 7th and Main streets, across from the high school at Puyallup. PD 5-9. Previous report 1-22

★RESIDENCES— Quinault, Wash.

Award to Gano & Hand, Brewster, $37,974, by U.S. Forest Service, Regional Supply Officer, room 207, 729 N.E. Oregon St., Portland, (Box 4137), for construction of two one-story, 50'x40', frame residences at the Quinault Ranger Station, Olympic National Forest, Grays Harbor County, Wash.; Bid No. 319. WB 5-14. Previous report 5-9

CHURCH— Redmond, Wash.

Working drawings are underway by Lawrence & Hazen, architects, 8626 Roosevelt Way, Seattle, for one-story, 2,200 sq. ft. church for First Baptist Church, Gilbert Roach, pastor, Box 334, Redmond.
PD 5-9. Previous report 5-9

★CLINIC REMODELING, ADDITION— Redmond, Wash.

Award to E.V. Hjorth, 434 8th Ave. W., Kirkland, $7,000 (approximate), by John Way, M.D., owner, for constructing a one-story addition and remodeling existing clinic in Redmond. Architect: Paul Hayden Kirk, A.I.A. & Associates, 615 Lakeview Blvd., Seattle. PD 5-14. Previous report 4-21

SHOPPING CENTER— Renton, Wash.
(Estimated cost $8,000,000)

Working drawings are underway by Young, Richardson & Carleton, architects, Central Bldg., Seattle, for shopping center west of business district in Renton, involving a two-story, 120,000 sq. ft., reinforced concrete department store for Sears, Roebuck & Co., a 20,000 sq. ft. food market, and 70,000 sq. ft. of shops and stores.
PD 5-10. Previous report 5-1

★BUILDING ADDITION— Richland, Wash.

Award to Hale Construction Co., 1712 N. Arthur, Pasco, $19,000, by Atomic Energy Commission, Box 550, Richland, for constructing one-story, 25'x36', concrete block building addition and alterations to adjoining 25'x30' section in existing building, 300 Area, Hanford Works.
SP 5-9. Previous report 5-1

★ROOF REPAIR— Richland, Wash.

Award to L. W. Vail Co., Box 847, Pasco, $54,003, by Atomic Energy Commission, Box 550, Richland, for roof repair on 111 buildings in various production areas, Hanford Works. SP 5-9. Previous report 4-28

● CLASSROOM, SHOP BUILDING— Seattle, Wash.

Bids to be opened 2 p.m., June 18, by 13th Naval District, Bldg. 250, U.S. Naval Station, Seattle, for constructing two-story, 80'x112', reinforced concrete shop and classroom building with 23'x53' garage, U.S. Naval and Marine Corps Reserve Training Center, Lake Union, Seattle; Spec. No. 12281/57. Plans with above office.

Exterior metal curtain walls on classroom and shop building, poured in place exterior concrete walls on garage. Work includes demolition of existing buildings and utilities; earthwork and landscaping; pilings; concrete work; bituminous paving; roofing; hollow metal doors and frames; lath and plastering; tile and resilient flooring; painting. SP 5-1

▲BATH HOUSE, RESTROOM— Seattle, Wash.

Five bids received by State Parks and Recreation Commission, 100 Dexter Ave., Seattle, for constructing comfort station at Birch Bay State Park and six bids received for construction of bath house at Moses Lake State Park. Bids opened May 9. BIRCH BAY—LOW BID: Hoffman & Ryan, 2... Ellis, Bellingham, $9,772. HI: Harold ... Prentice, 3109 Meridian, Bellingham, $13,... MOSES LAKE—LOW BID: Fairbanks C... struction Co., Herald Bldg., Moses La... $8,298. HI: Timberib Building Supp... Wheeler Road, Moses Lake, $11,151.
PD 5-13. Previous report ...

CHURCH ADDITION— Seattle, Wa...

Working drawings are underway by ... Cool & Morgan, architects, 110 East... Seattle, for a 4,000 sq. ft. wing addition ... Ridgecrest Community Baptist Church, ... 165th and 8th Ave. N.E., Seattle. Pastor ... Richard Ice, 16204 10th N.E., Seattle.
PD 5-13. Previous report ...

Seattle, Wash.

GYMNASIUM— Preliminary drawings are nearing completion by Theo Damm, architect, 516 James St., Seattle, for a 25,903 sq. ft., one-story, tilt-up concrete gymnasium on 42nd Ave. S.W., across from West Seattle High School, for Seattle School District No. 1, 815 4th Ave. N., Seattle. Bouillon, Griffith & Christofferson, 1411 Fourth Avenue Bldg., Seattle, are mechanical and electrical engineers; George Runciman, Lloyd Bldg., Seattle, is structural engineer. PD 5-9

REPAIR SHOP BUILDING—Seattle, Wash.

Working drawings will be completed later in May by George W. Lucker, architect, 2815 Rainier Ave., Seattle, for a concrete block, 4,200 sq. ft. repair shop on Empire Way, for Page Construction Co., owner-contractor, 5723 Norfolk St., Seattle. Construction contingent on issuance of building permit. Concrete slab-on-grade; clear-span roof; glued-laminated beams; 3"x6" t&g decking; metal sash, glass stopped in wood; one large overhead door; gas-fired suspended space heater. PD 5-3

NORTH SEATTLE HIGH SCHOOL—
Seattle, Wash.

(Estimated cost $3,766,400)

Bids will be called in early June by Seattle School District No. 1, 815 4th Ave. N., Seattle, for construction of the 1,500-student, 200,000 sq. ft. one-story North Seattle High School near Ashworth Ave. and N. 130th in Seattle. Working drawings are nearing completion by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. PD 5-3. Previous report 3-22

SHOPPING CENTER— **Seattle, Wash.**

Bids will be called about June 1 by Mansfield Thriftway, owner, for construction of a 23,300 sq. ft., one-story market and store building at 120th and Des Moines Way, Seattle. Working drawings are near completion by Wisbeck & Konzen, architect and engineer, 364 Broad, Seattle. Alexander H. Bargis, Lloyd Bldg., Seattle, is mechanical and electrical engineer. PD 5-9

★JUNIOR HIGH SCHOOL ALTERATIONS—
Seattle, Wash.

Award to Venne Beauchamp, Box 637, Everett, $71,317, by Shoreline School District No. 412, E. 158th and 20th N.E., Seattle, for alterations to Nicholas Murray Butler Junior High School, Fremont Ave. and N. 170th St., and to Thomas Hunt Morgan Junior High School, 25th N.E. and E. 160th St., in Seattle. Architect: Mallis & DeHart, 631 Lyon Bldg., Seattle. SP 5-9. Previous report 5-2

▲REHABILITATION CENTER—
Seattle, Wash.

Nine bids received by Washington Department of Labor and Industries, Olympia, for constructing one-story, 38,700 sq. ft. rehabilitation center. Bids opened May 7. Architects: Harmon, Pray & Detrich, 2000 5th Ave. Bldg., Seattle. Basic figures—LOW BIDS: John H. Sellen Construction Co., 228 9th Ave. N., $717,492; Jentoft & Forbes, 927 W. 46th, $718,861. HI: James I. Barnes Construction Co., 1019 Madison, $753,300. Of Seattle. PD 5-9. Previous report 5-1

★EVAPORATIVE CONDENSERS—
Seattle, Wash.

Award to Puget Sound Engineering, Inc., 3838 10th N.E., Seattle, $23,121, by 13th Naval District, U.S. Naval Station, Seattle, for installing three evaporative condensers, one cooling water circulating pump, oil trap, steel condenser platform and piping in Bldg. 30, U.S. Naval Supply Depot, Seattle; Spec. 12336/58. SP 5-9. Previous report 4-29

★BUILDING CONVERSION— Seattle, Wash.

Award to Dale M. Madden, 3010 E. 163rd, Seattle, $12,535, by 13th Naval District, U.S. Naval Station, Seattle, for conversion of Bldg. 247, U.S. Naval Station, Seattle; Spec. 12363/58. SP 5-9. Previous report 4-30

★CHRISTIAN SCIENCE CHURCH—
Seattle, Wash.

Award to John H. Sellen Construction Co., 228 9th N., Seattle, no figure available by Twelfth Church of Christ, Scientist, 3411 W. McGraw St., Seattle, for construction of a 61'x200' one-story and partial basement church at W. Blaine St. and 28th Ave. W., Seattle. Architect: Charles Faulkner, Chicago, Ill. Associate architects, Durham, Anderson & Freed, 1100 Denny Way, Seattle. Bids were received in October, 1957, with award delayed. PD 5-9. Previous report 11-6

▲HOTEL ENTRANCE ALTERATIONS—
Seattle, Wash.

Five bids received May 7 by Hotel Hungerford, 1100 4th Ave., Seattle, for alterations to side entrance, including face lifting and new doors. Architects: Bittman & Sanders, 301 Securities Bldg., Seattle. Basic figures are given. LOW BIDS: Baugh Construction Co., 922 Poplar, $14,590; W. G. Clark Construction Co., 468 Aurora Ave., $15,970. HI: Charles David, 5718 Kensington Place, $22,258. Of Seattle.

PD 5-9. Previous report 5-3

■ELEMENTARY SCHOOL ADDITIONS—
Seattle, Wash.

Planholders announced for construction of an additional two-building, 18,623 sq. ft. addition to Sunset Elementary School at 10th Ave. N.W. and W. 178th, Seattle. Bids will be opened 8 p.m., May 21, by Shoreline School District No. 412, Myron Ernst, secretary, E. 158th and 20th N.E., Seattle. Architects: Young, Richardson & Carleton, Central Bldg., Seattle.

Planholders: Wick Construction Co., 720 N. 35th; Puget Construction Co., Inc., 1811 Bush; Carl G. Anderson Construction Co., 12362 35th N.E.; N. D. MacDonald, 1723 Melrose Place; Nelsen Building and Contracting Co., Inc., 1243 Rainier; E. L. Livers, 10318 3rd N.W.; Ray Solie Construction Co., 12 W. McGraw; Norge Construction Co., 5008 Admiral Way; Venne Beauchamp, Box 637, Everett. Of Seattle except as noted.

PD 5-9. Previous report 5-2

★EXTERIOR PAINTING— Seattle, Wash.

Award to E. W. Waldal Painting Co., 4013 Stone Way, Seattle, $5,987, by Department of the Navy, Bldg. 11, U.S. Naval Air Station, Seattle, for painting exposed surfaces on Bldg. Nos. 2, 29 and 224, U.S. Naval Air Station, Sandpoint; Spec. 6609/57.

SP 5-7. Previous report 4-29

●APARTMENT (Painting, Cabinet Work)—
Seattle, Wash.

Sub-bids are being received at construction site, by R. R. VandeWater, contractor, 512 N. 64th, Seattle, for painting and for cabinet work in the 57-unit, six-story reinforced concrete apartment now under construction at 915 Queen Anne Ave., Seattle. Architect: George Bolotin, 915 E. Pine, Seattle. PD 5-10. Previous report 12-3

OFFICE BUILDING— Seattle, Wash.

Preliminary drawings underway by Bittman & Saunders, architects, Securities Bldg., Seattle, for a two-story, 5,000 sq. ft. office building on northeast corner of 1st and Eagle, for Friedman, Lobe and Block, owners, Seattle. PD 5-10

CATHEDRAL HOUSE ADDITION—
Seattle, Wash.

(Estimated cost $385,000)

Bids will be called in late summer by St. Mark's Episcopal Cathedral, Dean Leffler, vicar, for constructing two-story, semi-circular cathedral house addition to west end of existing cathedral, 1531 10th N., Seattle. Working drawings underway by Young, Richardson & Carleton, architects, Central Bldg., Seattle. PD 5-14. Previous report 2-6

●■APARTMENT— Seattle, Wash.

(Estimated cost $750,000)

Four contractors have been asked to submit bids for construction of a two-building (39 units each) apartment on Eastlake and Shelby, Seattle, just south of new apartment on this site. Award will be made later in May.

Planholders: E. F. Shuck Construction Co., 535 Pontius; Baugh Construction Co., 922 Poplar Place; Hebb & Narodick Construction Co., Inc., 4225 23rd W.; Puget Construction Co., Inc., 1811 Bush Place. Of Seattle. Architect: George Bolotin, 915 E. Pine St., Seattle.

Reinforced concrete, concrete block; concrete slab-on-grade; flat built-up roof, rigid insulation in roof; painted pumice block exterior; aluminum sash; asphalt tile, ceramic tile, some asbestos vinyl flooring; electric baseboard heat. A 48-55 car asphaltic concrete parking area is planned.

PD 5-10. Previous report 11-26

ADMINISTRATION BUILDING—
Seattle, Wash.

Preliminary plans are underway by Decker, Christenson & Kitchin, architects, 1411 Fourth Avenue Bldg., Seattle, for a new business administration building on the campus, east of Denny Hall, for University of Washington, Seattle.

PD 5-14. Previous report 4-3

●VAULT VENTILATION— Seattle, Wash.

Bids will be opened 2 p.m., June 5, by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for installation of government-furnished ventilation unit, provision of steam and condensate piping, electrical supply and opening in walls and duct work in Bldg. 250, U.S. Naval Station, Seattle; Spec. No. 18313/58. Plans with above office. Work also includes relocation of existing unit heater, relocation of lighting fixture and provision of new lighting fixture.

RG 5-14

●SEATTLE PUBLIC LIBRARY—
Seattle, Wash.

Bids will be opened 2 p.m., June 3, by City of Seattle, in librarian's office, 1631 7th Ave., Seattle, for construction of five-story and basement, 167,000 sq. ft., reinforced concrete Seattle Public Library (main branch) building to be located at 4th Ave. and Madison in Seattle. Plans with Bindon & Wright, architects, Hoge Bldg., Seattle. One contract for general, mechanical and electrical. Separate contract for vertical transportation (elevators, escalators). $100 deposit for two sets of general plans and specifications, $10 deposit for vertical transportation. Associate architects: Decker, Christenson & Kitchin, 1411 Fourth Avenue Bldg., Seattle. Structural engineers, Andersen, Bjornstad-Kane, Hoge Bldg.; electrical engineer, Beverly A. Travis, Medical Arts Bldg.; mechanical engineers, May & Triol, Medical Arts Bldg.

The building is designed with two-level basement for double tier bookstacks. First floor (4th Ave.), second floor and third floor (5th Ave. level) are the public floors, and will have some plaster partitions. Fourth floor accommodates the catalog, order and bindery divisions. Fifth floor is administrative and includes in addition to private offices, branch stacks and lunchroom, with small self-service kitchen for staff use. Concrete block partitions will be used in service areas. All floors are laid out on a modular basis to provide flexibility. The two principal entrances, on 4th and 5th avenues, are accessible without steps, and approaches will be surfaced with non-slip terrazzo. Vertical transportation will be handled by means of escalators between the three main floors, supplemented by one passenger and one service elevator, both automatic, which run the full height of the building. Although the two lower floors occupy the major portion of the block, the perimeter walls will set back sufficiently to provide interesting landscape features visible from within as well as from the streets. Certain areas within the building and in landscaping areas will incorporate features of arts such as sculpture and murals, to be coordinated with Seattle Art Commission. The new structure will provide storage for 970,000 volumes. Metal stacks for this purpose will be bid under separate contract, with bid call about mid-May. At the southeast corner of the site, provision is made for limited parking and truck delivery to a loading dock, adjacent to the service elevator. Contract for furniture, including chairs, tables, specialty items, draperies, will be bid separately after general contract is awarded. Landscaping contract will be bid separately at a later date.

Construction will include the following: concrete roof slab, concrete joist construction with steel spans; flat built-up roof with rigid insulation on roof and terrace decking; exterior facing of Mo-Sai veneer supplemented in certain areas with granite; alumi-

num windows; window glazing with gray heat resistant glass, with drapes and vertical blinds for additional sun control; vinyl tile flooring; suspended acoustical tile ceilings; lighting and ventilating units set on modular grid; mechanical ventilation with provision for installation of air conditioning or cooling at a later date. The building will be constructed so that three additional stories can be built after twenty years if necessary.
PD 5-10. Previous report 2-8

MARKET BUILDING— Seattle, Wash.

Construction will be underway about July 1 on a one-story, 20,000 sq. ft. Thriftway market building at Roosevelt Way and E. 111th St., Seattle, for Sedorco Land Co., 7th S. and Railroad, Kirkland, owners. Architects: McCool & Morgan, 110 Eastlake, Seattle. Owner will select general contractor soon.
PD 5-14

▲BUILDING ALTERATIONS— Seattle, Wash.

Bids received by University of Washington Board of Regents, Seattle, for alterations in School of Medicine, including laboratory casework, mechanical and electrical work in Anatomy - Biochemistry - Medicine, Medical and Dental departments, Nursing School and University Hospital. Architects and engineers: Naramore, Bain, Brady & Johanson, and McClelland & Jones, 904 7th Ave., Seattle.

Two bids received at May 13 bid opening. BIDS: Dale M. Madden, 3010 E. 163rd, Seattle, $26,729; E. F. Shuck Construction Co., 535 Pontius Ave., Seattle, $26,839.
PD 5-14. Previous report 5-10

▲WOODROW WILSON JUNIOR HIGH ADDITION— Seattle, Wash.

Bids received by Seattle District No. 1, Frank Brock, secretary, 815 4th Ave. N., Seattle, for construction of a one-story, 40,000 sq. ft. addition to Woodrow Wilson Junior High School, 1330 N. 90th, Seattle. Architects: Mallis & DeHart, 631 Lyon Bldg., Seattle.

Four bids on each contract received for the May 13 opening. Basic figures are given. GENERAL—LOW BID: Northern State Construction Co., 2833 26th W., $369,898. HI: Wick Construction Co., 720 N. 35th St., $408,000. MECHANICAL—LOW: L. G. Massart Plumbing and Heating Co., 4501 9th N.W., $153,500. HI: A. H. Merchant Plumbing and Heating Co., 1633 12th, $190,868. ELECTRICAL—LOW: Tullar Power Construction Co., 3214 W. McGraw, $40,380. HI: Northwest Electric Co., 420 Yale N., $49,990. All of Seattle.
PD 5-14. Previous report 5-2

▲ROOFING, SHEET METAL WORK— Seattle, Wash.

Four bids received May 13 by Seattle School District No. 1, 815 4th Ave. N., Seattle, for roofing and sheet metal work at Franklin High School and Madison Junior High School. Bids were previously opened June 4, 1957, bids rejected and project indefinitely postponed. FRANKLIN—LOW BIDS: ABC Roofing and Siding, Inc., 41 Hinds, Seattle, $9,642 (Item 1), Puget Sound Fabricators, Inc., 3670 E. Marginal Way, Seattle, $8,704 (Item 2). HI: Queen City Sheet Metal and Roofing, 1730 1st S., Seattle, $12,652, $11,735. MADISON—LOW BIDS: Dickey & Clauson, 1500 15th N.W., $10,599 (Item 1), $9,965 (Item 2). HI: Queen City Sheet Metal and Roofing, $13,815, $13,110. All of Seattle.
PD 5-14. Previous report 5-7

BOWLING CENTER— Snohomish, Wash.

Plans underway by Harry E. Botesch, architect, and F. Edward Brown, associate, Commerce Bldg., Everett, for the ten-lane Snohomish Bowling Center to be constructed across the street from the new Armory in Snohomish. Owner is Neil Richards of Snohomish. Ample parking area will be provided adjoining the structure.
SC 5-6

ALUMINUM BUILDING—Soap Lake, Wash.

The Town and Country Forum, Robert Hager, chairman, Soap Lake, is considering construction of a geodic dome type aluminum Chamber of Commerce and Information Center building along the highway on the East Beach in Soap Lake. The dome type building is a creation of Kaiser Aluminum.
SC 5-2

●LOCK BOXES, COUNTER COVERING— Spokane, Wash.

Bid opening of May 14 extended to 3 p.m., June 10, by General Services Administration, room 126, Federal Office Building, 909 1st Ave., Seattle, for installation of lock boxes and counter covering at the U.S. Post Office and Courthouse, Riverside and Lincoln streets, Spokane; Proj. No. SEA-953.
LB 5-10. Previous report 4-24

GRANDSTAND— Sumner, Wash.

Working drawings will be started by Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma, as soon as structural plans are completed by Anderson, Birkeland & Anderson, structural engineers, 1123 Port of Tacoma Road, Tacoma, for a 2,500-seat grandstand for Sumner High School.
SP 5-9. Previous report 1-15

HIGH SCHOOL— Sumner, Wash.
(Estimated cost $973,000)

Working drawings underway by Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma, for one-story reinforced concrete high school in Sumner. Bids will be called in mid-summer by Sumner School District No. 320, 1625 Main St., Sumner.
SP 5-9. Previous report 1-28

★HOUSING PROJECT— Swift Dam, Wash.

Award to Robert L. Kellogg, Kelso, approximately $128,000, by Pacific Power & Light Co., Al Bauer, assistant chief engineer and manager of construction, Public Service Bldg., Portland, for construction of seven residences and installation of streets and utilities for permanent housing of operating personnel at the company's Swift Hydroelectric Project on the Lewis River. Plans by Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland. The residences will each have three bedrooms and attached garages, total of 1,700 sq. ft. each.
WB 5-10

●STUDENT CENTER— Tacoma, Wash.
(Estimated cost $750,000)

Bids to be opened 10 a.m., May 28, by College of Puget Sound, in McCormick Room of Collins Memorial Library, Tacoma, for constructing two-story and basement, 60,000 sq. ft. student union building on N. 15th and Lawrence streets. Plans with Silas E. Nelsen, architect, 2715 Center, Tacoma. $25 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical, electrical.
DC 5-13. Previous report 2-14

PRIMARY SCHOOL— Tacoma, Wash.

Bids will be called late in May by Tacoma School District No. 10, S. 9th and Tacoma Ave., Tacoma, for construction of Washington Primary School, on Union between N. 27th and N. 28th, in northern section of Tacoma. Working drawings are near completion by Robert Billsbrough Price, architect, 2907 A St., Tacoma.
PD 5-9. Previous report 11-12

RESIDENCE— Tacoma, Wash.
(Estimated cost $30,000)

Bids will be called from a select list of bidders early in May for opening about June 1, on construction of two-story residence on N. Yakima in Tacoma. Working drawings have been completed by Liddle & Jones, architects, 1716 Pacific Ave., Tacoma. Concrete foundation; cedar siding; flat built up roof; post and beam construction; batt insulation in roof and ceiling; drywall partitions; glass louvres; resilient tile flooring; birch cabinets; plastic laminated counter tops; three fireplaces; oil-fired hot air heating, some electric baseboard heating.
PD 5-3

CEMENT STORAGE, DISTRIBUTION TERMINAL— Tacoma, Wash.
(Estimated $2,000,000 to $3,000,000)

Engineering plans to start immediately by Ideal Cement Co., Denver, on a cement storage and distribution terminal to be erected on a 29-acre site located on the Port of Tacoma's industrial waterway. Future plans call for a $15,000,000 cement manufacturing plant.
DC 5-6

★EXTERIOR PAINTING— Tacoma, Wash.

Award to Lakewood Painting Co., Tacoma, $1,390, by Department of the Army, Fort Lewis, for exterior repainting of U.S.O. Bldg. at S. 13th St. and Fawcett Ave. in Tacoma. Inv. No. 58-189. Bids opened April 29.
SP 5-6. Previous report 4-[illegible]

★VENTILATING EQUIPMENT— Tacoma, Wash.

Award to Norman S. Wright, 225 9th N., Seattle, $708, and R. E. Chase Co., 2223 E. 11th, Tacoma, $336, by Tacoma School District No. 10, at the office of W. H. Kiser, director of purchases, 3321 S. Union Ave., Tacoma, for furnishing ventilating equipment. Bids opened April 21.
LB 5-6. Previous report 4-[illegible]

JUNIOR HIGH SCHOOL— Tacoma, Wash.
(Estimated cost $1,050,000)

Working drawings nearing completion by Lea, Pearson & Richards, architects, 240 Stadium Way, Tacoma, for the one-story, 80,000 sq. ft., poured concrete, block and brick, Iva Alice Mann Junior High School to be built in Tacoma. Bids will be taken by Clover Park School District No. 400, 8[illegible] Steilacoom Blvd., Tacoma. Detailed description in previous report.
SU 5-7. Previous report 4-[illegible]

★WALL AND FLOOR TILE—Tacoma, Wash.

Award to Johnston Construction Co., 6[illegible] E. B St., Tacoma, $14,365, by Tacoma School District No. 10, Tacoma, for installing ceramic tile floors in pools and showers and glazed structural wall tile wainscots in Lincoln High School.
DM 5-7. Previous report 4-[illegible]

ACADEMY ADDITION— Tacoma, Wash.
(Estimated cost $17,000)

Working drawings underway by Liddle & Jones, architects, 1716 Pacific Ave., Tacoma, for a one-story, 1,700 sq. ft., three-classroom addition to Charles Wright Academy on Chambers Creek Road, Tacoma.
SP 4-[illegible]

MACHINERY FIRM BUILDING— Tacoma, Wash.
(Estimated cost $250,000)

Financial arrangements have not yet been completed by Murphy-Campbell Co., Frank Murphy, president, 2719 S. Tacoma Way, Tacoma, for constructing a new 30,000 sq. ft. precast concrete and glass building on [illegible] acre tract adjacent to Puyallup River Bridge, Highway 99, Tacoma. No decision yet made as to whether bids will be called or contract negotiated. Architects: Lea, Pearson & Richards, 240 Stadium Way, Tacoma.
SP 5-8. Previous report 12-[illegible]

LOBBY REMODELING— Tacoma, Wash.

Working drawings will be completed soon by Johnston, Evans & Parker, architects, Washington Bldg., Tacoma, for remodeling lobby of Washington Bldg., S. 11th at Pacific Ave., Tacoma. Contract may be negotiated. Plans include luminous ceiling, terrazzo flooring; new entrance doors, stripping, refacing columns.
SP 5-8. Previous report 11-[illegible]

HIGH SCHOOL— Tacoma, Wash.
(Estimated cost $2,000,000)

Bids will be called in the spring of 1959 by Tacoma School District No. 10, School Administration Bldg., Tacoma, for construction of a South Tacoma High School on a 74-acre site at S. 66th and Adams, Tacoma. Architect: Robert B. Price, 2907 A St., Tacoma.
SP 5-8. Previous report [illegible]

SENIOR HIGH SCHOOL— Tacoma, Wash.

Robert Billsbrough Price, architect, 2[illegible] A St., Tacoma, has been retained to prepare plans for the new South Tacoma Senior High School, to be located near S. Tacoma Way and S. 66th St., Tacoma, for Tacoma School District No. 10, S. 9th and Tacoma Ave., Tacoma.
PD

★SCHOOL ADDITION— Tacoma, Wash.

General contract awarded to Jardeen Building Contractors, 1240 S. Sprague, Tacoma, $78,202, by Fife School District 417, Route 2, Box 85, Tacoma, for construction of general shop building (Unit

and classroom addition to existing farm shop (Unit B) at Fife, Tacoma. Plans by Charles Ruger & Associates, architects, 225 S. Tacoma Ave., Tacoma.
LB 5-14. Previous report 5-1

SCHOOL CONSTRUCTION— Tekoa, Wash.

Voters of Tekoa School District No. 265, Lewis Miles, superintendent, Tekoa, approved a 20-mill levy to provide $53,000 toward construction of a new high school. Election was held May 6. The funds will be added to $142,000 now in the building fund and it is hoped construction will start in June.
MH 5-14. Previous report 4-3

PAINTING— Vancouver, Wash.

Bids to be opened 1:15 p.m., May 22, by Department of the Army, Purchasing and Contracting Office, Fort Lewis, for exterior painting of buildings occupied by U.S. Army Garrison, Tenants and Standby, Vancouver Barracks, Vancouver; Inv. No. 58-225. Plans with above office. Bid bond 20%. SP 5-13

▲SPRINKLER SYSTEM—Wenatchee, Wash.

Three bids received May 5 by Chelan County Commissioners, Courthouse, Wenatchee, for installation of automatic wet pipe fire sprinkler system in original portion of Chelan County Garage, 145 Washington. BIDS: Grinnell Co., 3101 Elliott, Seattle, $2,898; Viking Automatic Sprinkler Co., 1120 8th S., Seattle, $3,035; Pacific Automatic Sprinkler, 2148 N.E. Union, Portland, $3,141.
DM 5-10. Previous report 4-24

HIGH SCHOOL— Winlock, Wash.

Winlock School District No. 232, Winlock, will hold election in the fall on bonds to finance construction of a high school plant at Winlock. Architect: John C. Bryant, A.I.A., Robert Butterfield, architectural associate, and Norman G. Aehle, architect, 208 Sager Bldg., Everett.
HH 5-14

BUILDING ALTERATIONS— Yakima, Wash.

Alterations and additions to Studio of Design, 419 S. 19th, Yakima, will start soon by Lee Luettgen, contractor, Galloway Road, Yakima, for Carl Braune, owner. Architect: Doudna & Williams, 324 Miller Bldg., Yakima.
IG 5-9

■LODGE ADDITION— Yakima, Wash.

Planholders announced for constructing 14,000 sq. ft. second story addition to the Eagles Lodge in Yakima to house 12-lane bowling alley. Bids to be opened 8 p.m., May 26, by "Red" Lane, president, Eagles Lodge, 207 W. Chestnut St., Yakima. Plans with Gochnour & Marble, architects, Miller Bldg., Yakima.

Planholders: V. K. Powell & Co., 405 Wapato Ave., Wapato; Hugh Templeton, Box 163; W. J. Parks & Son, 4403 Summitview Ave.; Al Kokenge, 621 S. 36th Ave.; Gilbert H. Moen, 516 S. 5th Ave.; H. C. Corpman, 1106 S. 14th Ave.; W. M. Yeaman, 601 S. 1st St.; Leingang Construction Co., 3804 Summitview Ave. Of Yakima unless noted.
IG 5-13. Previous report 5-7

RESIDENCE— Yakima, Wash.
(Estimated cost $40,000)

Working drawings underway by Champ Sanford, architect, 602 S. 5th Ave., Yakima, on a one-story solid masonry residence at 37th Ave. and Lincoln in Yakima. When plans are completed, sub-contracts will be let by Harold Sanford, owner, 418 S. 23rd Ave., Yakima.

Poured concrete footings and foundation; frame floors; built-up roofing, gravel surface; frame partitions; aluminum sash; rock-lath and plaster partitions; wood and asphalt tile flooring; plaster ceilings; mahogany and birch doors; warm air heating system, oil fired.
IG 5-14

SCHOOL ADDITION— Yakima, Wash.

Plans will soon be submitted for approval to the State Department of Education, Olympia, by Cowan & Paddock, architects, Larson Bldg., Yakima, for a one-story and no basement, brick veneer and concrete, three-classroom and library addition to Nob Hill School in Yakima. Bids will be taken by Yakima School District No. 7, Milton Martin, superintendent, Administration Bldg., Yakima. Completion expected this summer.

Reinforced concrete footings and foundation; concrete slab on grade; timber supporting structures; built-up roofing, wood decking; frame partitions; steel sash; plaster on gypsum exterior wall finish, paint and wood trim interior; plaster with gypsum lath partitions; asphalt tile flooring; acoustical ceilings; radiant heat in floor slab.
IG 5-14

IDAHO

BRANCH BANK— Boise, Idaho
(Estimated cost $100,000)

Contractor on Idaho First National Bank's new branch at 27th and Fairview, Boise, is Jordan-Wilcomb Co., 406 S. 6th, Boise. Architect: Nat J. Adams & Associates, 325 Idaho Bldg., Boise. Description: 3,850 sq. ft., Norman brick, terrazzo and tile flooring, concrete and felt roofing, Lennox, warm air heating.
DM 5-9. Previous report 3-21

ELEMENTARY SCHOOL— Caldwell, Idaho

Bond issue for $190,000 was approved in the May 6 election held by School District No. 132, Caldwell, to finance construction of a 13-classroom addition to Washington Elementary School in Caldwell. Architect: Lee R. Cooke, 1222 1st St. S., Nampa.
SC 5-14. Previous report 4-9

SCHOOL, CONVENT— Genesee, Idaho
(Estimated cost $130,000)

Fund raising drive underway by Roman Catholic Church, Boise Diocese, Bishop James J. Byrne, 422 Idaho St., Boise, for a school and convent at Genesee. Preliminary plans completed by Dropping, Kelly & Finch, architects, 2504 Kootenai, Boise.
GH 5-10

★TELEPHONE HEADQUARTERS BUILDING— Homedale, Idaho

Award to R. W. Luekenga Construction Co., Box 943, Nampa, $49,743, by Owyhee Telephone Co., Harper Saunders, president, Telephone Office, Homedale, for construction of a one-story and no basement, 3,740 sq. ft., concrete block telephone headquarters building at Homedale. Plans with Harold G. Thompson, architect, 6001 Fairview Ave., Boise. Bids opened April 29.
LB 5-14. Previous report 4-26

■LABORATORY, SERVICE BUILDING, UTILITIES— Idaho Falls, Idaho
(Estimated cost $1,600,000)

Additional planholders announced on constructing laboratory and service building, utilities and facilities for EBR/II facility at National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-938. Bids to be opened 3 p.m., M.S.T., May 28, by Atomic Energy Commission, Box 1221, Idaho Falls. Plans call for constructing 100,000 gal. fuel tank, prefabricated metal building, waste disposal facilities, underground utilities, roads.

Additional planholders: Singmaster & Breyer, Inc., 420 Lexington Ave., New York, N.Y.; AEC Engineering and Construction Co., 5715 S. Broadway, Los Angeles, Calif.; Mountain States Construction Co., 980 Simms, Golden, Colo.; James Leck Co., 322 W. 61st, Minneapolis, Minn.; Farnsworth and Chambers Co., Inc., Box 74, Houston, Tex.; Lord-Carroll, Inc., 4507 S.E. Milwaukie, Portland, Ore.; Sumner Sollitt Co., 307 N. Michigan, Chicago, Ill.; Bovee & Crail Construction Co., 15134 S. Indiana Ave., Paramount, Calif.; Shaw & Estes, Inc., Box 2399, Dallas, Tex.; Nager Electric Co., Inc., 420-429 Broadway, Brooklyn, N.Y.; Graver Tank and Manufacturing Co., East Chicago, Ind.; Anderson Burke Corp., 10662 N.E. 8th, Bellevue, Wash.; Howard S. Wright Construction Co., Box 3764, Seattle, Wash.; Western-Knapp Engineering Co., 650 5th, San Francisco, Calif.; Hoffman Construction Co., 715 S.W. Columbia, Portland, Ore.; James Stewart Co., 411 N. Central Ave., Phoenix, Ariz.
DM 5-13. Previous report 5-6

▲BUILDING, WASTE SYSTEM— Idaho Falls, Idaho

Three bids were received May 7 by Atomic Energy Commission, Box 1221, Idaho Falls, for constructing 139'x103' pumice block building with concrete roof slab and metal deck for Process Improvement Facility at National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-948. Completion time 240 days. BIDS: Arrington Construction Co., Box 881, Idaho Falls, $466,380; Hoffman Construction Co., 715 S.W. Columbia, Portland, $467,790; Watkins Construction Co., Box 1786, Boise, $490,643.
DM 5-10. Previous report 4-25

EXHIBITION, SALES BUILDING— Idaho Falls, Idaho

Bids will be called soon by Bonneville County Commissioners, Courthouse, Idaho Falls, for constructing 60'x60', concrete block exhibition and sales building at county fairgrounds. Plans by Norman J. Hamill & Associates, architects, 203 Earl Bldg., Idaho Falls, call for built-up wood seating; prestressed concrete roof.
GH 5-14

HOSPITAL ADDITION— Lewiston, Idaho
(Estimated cost $100,000)

Plans announced by St. Joseph's Hospital Community Foundation, John Ernsdorff, business manager, St. Joseph's Hospital, 211 S. High, Lewiston, for construction of an addition to the southwest wing of the hospital. Construction will take place within the next two years providing federal Hill-Burton funds become available. Architect is Hugh Richardson, Weisgerber Bldg., Lewiston.
GH 5-6

JUNIOR HIGH SCHOOLS— Lewiston, Idaho
(Estimated cost $1,500,000)

Bids will be called in August or September by Lewiston School District, 9th Ave. and 11th, Lewiston, for construction of two two-story junior high schools, one in Lewiston and one in Lewiston Orchards. Working drawings are underway by Hugh Richardson, architect, Weisgerber Bldg., Lewiston.
DR, GH 5-8. Previous report 3-29

FAIR BUILDING— Lewiston, Idaho

Lewiston Roundup officials have made available land located across the street from the Roundup pavilion, for the proposed 140'x140', 19,600 sq. ft., pumice block, fair buildings. Building—glued laminated beams, treated roof; reinforced concrete floor; unobstructed center span 85'x95', bleacher seating for 4,000; stage, kitchen, shower room facilities; basketball floor. Grounds—fencing, livestock pens, parking area.
DR 5-10. Previous report 2-6

SCHOOL CONSTRUCTION—Meridian, Idaho
(Estimated cost $720,000)

Bids will be called in June by Joint Class A School District No. 2, Ada and Canyon counties, Meridian, for constructing 12- or 18-classroom elementary school at Meridian, 10-room school in Ustick-Cloverdale area, six-classroom schools at Eagle and on south side of Meridian, and all-purpose room addition and renovation to elementary school building at Star. Contractors may bid on separate projects or submit combined bid. Architect: Harold G. Thompson, 6001 Fairview Ave., Boise.
GH 5-10. Previous report 12-24

SORORITY HOUSE— Moscow, Idaho

Plans announced by Pi Beta Phi sorority, 720 Deakin Ave., Moscow, for construction of a new chapter house at 803 Deakin Ave. Construction will start this summer.
MH 5-8

HIGH SCHOOL ADDITION— Mountain Home, Idaho
(Estimated cost $128,000)

Plans have been completed by Dropping, Kelly & Finch, architects, 2504 Kootenai, Boise, and have been forwarded to HHFA for approval on a one-story, 61'x150', eight-classroom addition to high school in Mountain Home. Bids will be called by School District No. 6, Mountain Home, upon federal approval. Structural engineer is Richard M. Kelley; mechanical engineer, Donald Wisdom; electrical, Terry Oroack, 2405 Kootenai, Boise.

Description: 9,150 sq. ft.; concrete footings, foundation; solid masonry wall; concrete slab floor; steel and timber beams; flat roof; frame exterior partitions, plaster with gypsum lath on interior; steel windows; brick exterior finish; asphalt tile flooring;

acoustical ceilings; wood and steel doors; wood cabinets; gas heating system.
DM 5-14. Previous report 4-5

● CAPEHART HOUSING— **Mountain Home AFB, Idaho**
(Estimated cost $4,000,000)
Bids will be opened 2 p.m., June 5, by U.S. Air Force, Procurement Office, Mountain Home AFB, for construction of 270 units Capehart housing at Mountain Home AFB. Specifications with Herb Pennings, procurement officer, above address. SC 5-14

DIAGNOSTIC, TREATMENT CENTER— **Nampa, Idaho**
The Samaritan Community Hospital, Ray Sauer, administrator, 716 Dewey Ave., Nampa, is contemplating construction of a new diagnostic and treatment center at the hospital. GH 5-6

★ARMORY STORAGE BUILDINGS— **Nampa, Idaho**
Award to R. W. Luekenga Construction Co., Box 943, Nampa, $7,590, by Major James Brooks, engineer and maintenance officer, Idaho National Guard, 801 Reserve, Boise, for constructing oil storage building and fencing, access road and hardstand area at Nampa. Plans by Wayland & Cline, 624 Idaho Bldg., Boise.
LB 5-14. Previous report 5-6

BANK— **Orofino, Idaho**
Hugh Richardson, architect, Weisgerber Bldg., Lewiston, has been retained by Idaho First National Bank, John A. Schoonover, president, 205 N. 10th, Boise, for construction of a new branch bank on a 96'x122' lot located at the corner of Michigan Ave. and A St. in Orofino.
GH 5-6. Previous report 4-10

VOTAC FACILITY— **Pocatello, Idaho**
Approximate bid opening date of June 26 has been set by Civil Aeronautics Administraiton, 5651 W. Manchester, Los Angeles, Calif., for converting VOR to VORTAC facility on site about 11 mi. southwest of Pocatello; Proposal 4-58-1031. Plans will be available about June 5 from CAA, Box 45007, Airport Station, Los Angeles. DESCRIPTION: convert 16'x28' prefabricated type S building into 36'x36' type S prefabricated steel building with concrete floor and foundation, install engine generator with fuel tank, improve access road, electrical and other related work. DM 5-10

TRAINING CENTER— **Rexburg, Idaho**
The Department of the Army, Idaho Military District, Gowen Field, Boise, has purchased a site at Rexburg for construction of an Army Reserve training center. GH 5-6

▲GRADE SCHOOL, SCHOOL ADDITIONS— **Salmon, Idaho**
Six bids were received May 6 by Lemhi County Class A School District No. 291, Salmon, for constructing 12-classroom elementary school, two-room addition to Cobalt School; a music and manual arts building, converting existing room into shower and locker unit at high school in Salmon. Basic —LOW BIDS: L. H. Krieger Construction Co., Box 26, Nampa, $342,000; Reynolds & Walker Inc., Box 363, Twin Falls, $347,450; Peterson Construction Co., Box 1345, Pocatello, $354,900. The high bid was $359,900. Architect: Charles W. Johnston, 13 N. 8th, Payette. DM 5-9. Previous report 4-25

NURSING HOME— **Sandpoint, Idaho**
Plans announced by State Department of Health, W. Brooks Martin, head of hospital facilities services, Boise, for construction of a 50-bed nursing home at Sandpoint. Building will be constructed within the next two years providing federal funds become available. GH 5-6

HOSPITAL— **Sun Valley, Idaho**
Preparation of plans is contingent upon allocation of federal funds for construction of a 20-bed hospital on grounds of the Sun Valley resort near Challenger Inn at Sun Valley, according to W. Brooks Martin, director of hospital facilities service, State Department of Health, Boise.
GH 5-1. Previous report 10-19

MONTANA

● PAINTING— **Billings, Mont.**
Bids to be opened 5 p.m., May 23, by School District No. 2, 2911 4th Ave. N., Billings, for interior and exterior painting at various schools in Billings. Plans with school clerk, above address. Separate contracts on each school or one contract for all schools may be awarded. Certified check or bid bond 5%. EE 5-13

■ SCHOOL— **Billings, Mont.**
Planholders announced on constructing four-classroom elementary school northeast of Billings. Bids to be opened May 20 by Yellowstone County School District No. 41, Billings. Architect: Chandler C. Cohagen, Hedden Bldg., Billings.
Planholders: Pogue Construction Co., 1612 2nd W.; Hardy Construction Co., 420 N. 25th; Wells Bros. Construction Co., 704 Dunham Ave. All Billings.
EE 5-13. Previous report 4-29

★PAROCHIAL SCHOOL— **Billings, Mont.**
General and electrical contracts awarded by Trinity Lutheran Church, 537 Grand Ave., Billings, for construction of a one-story, 92'x122', brick, four-classroom and multipurpose room elementary school building. Plans by Joseph A. Gates, architects, 812 Midland Bank Bldg., Billings. AWARDS—GENERAL: B. E. Clark Construction Co., 931 Princeton Ave., Billings, $54,586. ELECTRICAL (Bids opened May 7, about a week after bid opening on general contract, at which time four bids were received): Yellowstone Electric, 520 N. 32nd St., Billings, $5,524. Mechanical portion of work is being negotiated with a local contractor.
EE 5-14. Previous report 5-6

● GREEN HOUSE, HEAD HOUSE— **Bozeman, Mont.**
Bids to be opened 10 a.m., M.S.T., May 22 by State Board of Examiners, Capitol Bldg., Helena, for constructing greenhouse and head house for Montana State College, Bozeman. Plans with J. G. Link & Co., Architects, 317 Electric Bldg., Billings. $25 deposit. Certified or cashier's check, or bid bond 5%. DM 5-9

HIGH SCHOOL— **Churchill, Mont.**
Oswald Berg, Jr., & Associate Architects, 1119 N. 7th Ave., Bozeman, have been retained to prepare plans for a new high school at Churchill. EE 5-6

CHURCH, RECTORY—Columbia Falls, Mont.
Taylor, Thon, Schwartz & Kirkpatrick, architects, 556 3rd Ave. E.N., Kalispell, have been retained to prepare plans for the new St. Richard's Catholic Church and rectory to be constructed on an 8-acre tract in the Kennedy Addition, south of State Route 40 near 11th St., in the southwestern section of Columbia Falls. A fund raising campaign is underway. Pastor is the Rev. William C. Malloy. RB 5-7. Previous report 4-5

ELEMENTARY SCHOOL— **Edgar, Mont.**
(Estimated cost $65,000)
Bids will be called the latter part of May by Edgar School District, Carbon County, Edgar, for construction of a 5,040 sq. ft., wood frame, four-classroom elementary school west of the present school at Edgar. Plans by Edwin G. Osness, architect, 2714 10th Ave. N., Billings. Plans call for tile flooring, composition roofing and forced air heating system. SP 5-2. Preivous report 4-12

WAREHOUSE, COTTAGES— **Galen, Mont.**
Gehres D. Weed, architect, Strand Theater Bldg., Kalispell, has been retained by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, to prepare plans for a warehouse and two cottages for Montana State Tuberculosis Sanitarium at Galen. LS 5-8

★ASSEMBLY BUILDING, MAGAZINES, UTILITIES— **Glasgow AFB, Mont.**
Awards to Sound Construction and Engineering Co., 1300 Aloha, Seattle, $640,000 (magazines, facilities) and Marvin O. Peterson, 1020 N. Main St., Minot, N. Dak., $25,000 (fencing), by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for ammunition storage, AEC type, including constructing 4,000 sq. ft. masonry block Assembly and Checkout Bldg. and three reinforced concrete storage magazines, 6,000 sq. ft. each, at Glasgow AFB. ENG-45-164-58-43.
SC 5-9. Previous report 4-9

● DORMITORIES, DINING HALL— **Glasgow AFB, Mont.**
Bids to be opened 2 p.m., P.S.T., June 3, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, for constructing two-story, 17,000 sq. ft., concrete block, slab-on-grade, officers quarters having steel joists roof decking; five three-story, 21,000 sq. ft. each, airmen's dormitories of concrete frame with block fillers; 18,000 sq. ft. airmen's dining hall having concrete block, slab-on-grade, steel joist, roof decking; asphaltic road paving using 45 ton asphaltic cement; 760 ton asphaltic concrete; at Glasgow AFB, Glasgow; ENG-45-164-58-60. Plans with above office. DM 5-13

HOSPITAL REMODELING— **Harlem, Mont.**
(Estimated cost $75,000)
Loners, Stroebe & Johnson, 511 N. 31st St., Billings, have been retained to prepare plans for remodeling improvements at Fort Belknap hospital in Harlem, by Public Health Service, Division of Indian Health, Box 1720, Portland, Ore. Work includes surgery, laboratories, outpatient clinic, waiting room and administration offices, and establishment of a pharmacy. EE 5-1

★DRIVE-IN BANKING FACILITY— **Helena, Mont.**
Awards announced by First National Bank and Trust Co., 302 N. Main, Helena, for construction of a drive-in and sidewalk banking facility opposite the bank's main building in Helena. Plans by Sigvald L. Berg, architect, 711 Monroe Ave., Helena. No contract amounts released. AWARDS—GENERAL: Sternberg & Son, 909 N. Dakota, Helena. MECHANICAL: Carlson Plumbing, 28 W. 6th Ave., Helena. ELECTRICAL: Mayo Electric Co., 210 N. Rodney, Helena. EE 5-1

● CONTROL HOUSE ADDITIONS, RESIDENCE— **Hot Springs, Mont.**
Bids to be opened 3 p.m., May 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for constructing control house additions and addition of operator's residence at Hot Springs Substation, about three mi. southeast of Hot Springs, Sanders County, Mont.; Inv. No. 8736. Specifications with above office. $10 deposit. Bid guaranty 25%. Two schedules for bids. SCHED. 1, control house additions. SCHED. 2, operator's residence. SP 5-2

FEDERAL BUILDING REPAIRS— **Missoula, Mont.**
(Estimated cost $120,000)
Fox, Ballas & Barrow, architects, Wilma Bldg., Missoula, have been retained to prepare plans for repairs to the Federal Bldg. in Missoula, including conversion of heating plant to gas, roof repairs, caulking exterior masonry, replacement of some wood casement windows on third floor, installation of new entrance doors for the post office and installation of acoustical ceilings on floor in the post office work room. Plans will be available soon from the General Services Administration, 126 Federal Office Bldg., 909 1st Ave., Seattle. RB 5-1

● ALUMINUM ROOFING— **Olney, Mont.**
Bids will be opened 8 p.m., May 17, by School District No. 58, Patricia Conat, clerk, Box 35, Olney, for aluminum roofing on Bissell School in Olney. For further details contact Melford Woolan or Jim Hutchens, Route 1, Whitefish, Mont. RB 5-1

LUMBER PLANT— **Pablo, Mont.**
Construction has been started by Plum

Creek Lumber Co., Columbia Falls, D. C. Dunham, president, on a lumber plant on a 121 acre site a mile north of Pablo along the N.P. branch line. A 120'x350' planer mill will be built first, followed by sawmill, drykilns, barker, chipper plants and loading platforms. RB 5-13

SAWMILL FIRE— Seeley Lake, Mont.

(Estimated loss $250,000)

Gray Lumber Co. plans to rebuild immediately the sawmill at Seeley Lake which was recently destroyed by fire. RB 5-14

▲HIGH SCHOOL ADDITION—Troy, Mont.

Bids received and subsequently rejected by School District No. 1, E. F. Bivins, superintendent, Troy, for construction of an addition to the high school gymnasium at Troy. Plans by Gehres D. Weed, architect, Sundelius Bldg., Kalispell. Bids opened May 9 for the second time; bids also rejected after the March 14 opening. LOW BIDS—GENERAL: Collins Construction Co., Route 1, Kalispell, $107,318. MECHANICAL: Kalispell Plumbing and Heating, Kalispell, $34,554. ELECTRICAL: Hollingsworth Electric, Kalispell, $8,255. Plans will be revised for a smaller addition and bids will be called again early in June. SC 5-14. Previous report 5-3

●ARMORY— Whitefish, Mont.

Bids to be opened 10 a.m., June 5, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for constructing one-story, 93'x90', pumice block National Guard armory on a five-acre site east of Whitefish. Plans by Gehres D. Weed, architect, Sundelius Bldg., Kalispell. EE 5-13. Previous report 12-27

HIGH SCHOOL— Wibaux, Mont.

Bond election will be held June 3 in Wibaux on a $500,000 bond issue to finance construction of new county high school at Wibaux. EE 5-10. Previous report 4-17

ALASKA

▲PAINTING CITY HALL— Anchorage, Alaska

Six bids received in office of George Shannon, city manager, City Hall, Anchorage, for painting first and second floors of City Hall, with alternate for painting rest rooms in library, Anchorage. Bids opened May 9. LOW: Co-op Construction Co., 201 E. 3rd, Anchorage, $1,858 (basic), $127 (alt.), $1,985 (total). HI: Union Painting Co., 705 Erwin St., Mountain View, Anchorage, $4,192, $234, $4,426. AL 5-13. Previous report 5-6

PUBLIC SAFETY BUILDING— Anchorage, Alaska

(Estimated cost $800,000)

The Community Facilities Administration has approved an advance of $16,000 to the City of Anchorage for preparation of preliminary plans for a public safety building, containing fire and police station, jail and municipal court, to be constructed where Mulcahy Park is now located in Anchorage. An architect will now be retained to prepare plans and cost estimates, according to George Shannon, city manager, City Hall, Anchorage. AL 5-2

HOUSING PROJECT— Anchorage, Alaska

(Estimated cost $380,000)

Construction will start soon by Alcan Realty Co., 1145 E. 8th (acting as prime contractor, subcontracting plumbing, electrical, special work), on Inlet View Homes project in the South Addition of Anchorage. Design by Alcan and Ellis Construction Co. of Sacramento, Calif. Prefabricated exteriors in sections by Virginia Lee Homes, Inc., Dexter Horton Bldg., Seattle. Sponsored by Alcan and Jack White Real Estate and Insurance Co., 635 5th, Anchorage. Houses: one-story, poured concrete foundations, footings; 1,057 sq. ft. to 1,062 sq. ft.; frame walls, floor; timber girders, beams; mill truss roof; aluminum windows; F. G. with aluminum foil insulation; forced hot air, oil fired heating; shake, cedar siding, board and bat; drywall partitions; group C asphalt tile and oak flooring; vinyl tile; drywall ceilings. AL 5-9

RESIDENCES— Anchorage, Alaska

(Estimated $20,000 to $22,000 each)

Peninsula Development Corp., 718 5th, Anchorage, Harold Reeve, president, plans constructing six homes on 60 acre site in vicinity of Kenai Shopping Center. Long range planning calls for three to five hundred homes. Negotiations underway with Loreco Co., 2631 Humbolt, Bellingham, Wash. for pre-cut homes. AL 5-9

▲CHURCH COMPLETION— Anchorage, Alaska

Two bids received by First Methodist Church, in office of Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage, for completion of the church in Anchorage. Bids opened May 12. BIDS: Ken Brady Construction Co., 1402 Nelchina, Anchorage, $172,000; Schowenwald Construction Co., DeBarr Road, Anchorage, $187,490. AL 5-14. Previous report 4-30

★MULTIPURPOSE SCIENCE ADDITION— College, Alaska

Award to Burgess Construction Co., Box 1062, Fairbanks, $2,363,727, by Alaska Public Works, Juneau, for constructing four-story, 80,000 sq. ft. multipurpose building for University of Alaska at College; Proj. Aaa 50-A-298. Architect: Manley & Mayer, 210 Loussac-Sogn Bldg., Anchorage. JU 5-13. Previous report 4-24

● AIR FORCE BUILDINGS— Eielson AFB, Alaska

Bids to be opened 2 p.m., A.S.T., June 10 by Corps of Engineers, Box 1288, Anchorage, for constructing 8,710 sq. ft., two-story and basement, concrete block, battalion headquarters and service building at Eielson AFB; ENG-95-507-58-39. Plans call for pitched metal roof, concrete frame, 8,710 sq. ft. paving and outside utilities. Completion date July 15, 1959. Bid bond 20%. DM 5-19

● STORAGE BASE ROCKET ASSEMBLY— Elmendorf AFB, Alaska

Bids to be opened 2 p.m., A.S.T., June 11 by Corps of Engineers, Box 1288, Anchorage for additions and alterations to base rocket storage unit B involving excavation-backfill, concrete, structural steel, corrugated metal siding, steel roof decking, built-up roofing, metal windows, central plant hot-mix paving, topsoiling, at Elmendorf AFB; ENG-95-507-58-15. Completion date October 31. Bid bond 20%. DM 5-10

MULTIPURPOSE ADDITION— Fairbanks, Alaska

Bids will be called soon by Fairbanks School District on construction of multipurpose addition to William W. Hunter Elementary School, 16th Ave. and Gilham Way, Fairbanks; Proj. No. Aaa 58-C-201A-8. Plans by Alaska Architectural and Engineering Co., 710 3rd, Fairbanks, call for frame and masonry walls; concrete slab floors; glued laminated beams; wood stairway; wood windows; cedar board and brick exterior finish; birch plywood interior; drywall interior partitions; plastic, asbestos, terrazzo flooring; drywall, acoustical ceilings; wood, steel, aluminum doors; wood cabinets; incandescent lighting. AL 5-13. Previous report 5-8

▲OFFICE BUILDING REMODELING— Fairbanks, Alaska

Two bids were received May 7 by The Lathrop Co., 516 2nd Ave., Fairbanks, for remodeling and constructing addition to four-story, Lathrop Building in Fairbanks. BIDS: Pacific Construction Co., 420 College Road, Fairbanks, $433,000; Alcan Pacific, 1445 E. 8th, Anchorage, $459,000. Architect: McEntire & White, 201 Chena Bldg., Fairbanks. DM 5-9. Previous report 4-18

OFFICE QUARTERS BUILDING— Fort Yukon, Alaska

The Bureau of Land Management, Area Office, 226 Seward, Juneau, is negotiating with only bidder (April 14 opening) Pitcher Construction Co., for lower cost in constructing 2,400 sq. ft. office quarters building at Fort Yukon. If negotiations are unsuccessful, project will be readvertised. Architect: Linn A. Forrest, 622 Hemlock Way, Juneau. JU 5-8. Previous report 4-16

BARRACKS BUILDING— Glenallen, Alaska

The Bureau of Land Management, Area Office, 226 Seward, Juneau, is negotiating with low bidder (April 15 opening) Curtis & Hoge, Anchorage, for lower cost in constructing one-story wood frame barracks for the fire crew at Glenallen. If negotiations are unsuccessful, project will be readvertised. JU 5-8. Previous report 4-25

★HIGH SCHOOL ADDITION—Kenai, Alaska

Award to J. B. Warrack Co., Box 2080, Anchorage, $57,800, for one-story, 2,200 sq. ft. poured concrete and frame addition to Territorial High School at Kenai. Plans by Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage. AL 5-14. Previous report 4-30

SHOPPING CENTER— Kenai, Alaska

(Estimated $500,000 to $700,000)

Plans are well underway by Nathaniel Green, architectural advisor for Peninsula Development Corp., 708 5th, Anchorage, for development of commercial, industrial and residential construction project. Immediate plans on which the corporation may act as prime contractor and sub-contract mechanical and electrical work, call for four-story, 125'x60' reinforced concrete one-stop shopping center and recreational center between Beaver-Loop Road and Sterling Highway at Kenai. Design engineering by Billie Jean Hildonen, architectural advisor for Morrison-Knudsen Co., Inc., Box 320, Anchorage.

Building — three-story; poured concrete walls; concrete slab floor; concrete columns; flat roof, steel truss; frame exterior partitions, drywall interior; concrete stairway; wood windows; stucco exterior finish; hemlock, rubber tile flooring; drywall ceiling; wood and glass doors; wood cabinets; rigid insulation on roof, bat in exterior walls; hot water heating system, oil fired; forced air ventilating system. AL 5-14. Previous report 4-30

PARK BUILDINGS— King Salmon, Alaska

Bureau of Land Management has announced request by National Park Service for withdrawal of approximately 11 acres of land at King Salmon. The site, according to Duane D. Jacobs, superintendent, Mt. McKinley National Park, is needed for construction of permanent headquarters consisting of administration building shops, employee housing, boat dock in connection with administration of Katmai National Monument. Construction would be part of Mission 66 long range improvement program for units of National Park System. AL 5-14

● HEATER OUTLETS— Ladd AFB, Alaska

Bids to be opened 10 a.m., May 21, in the procurement office, Ladd AFB, for installing headbolt heater outlets in base motor pool, Ladd AFB; Inv. No. 58-123. Plans with above office. SP 5-13

● EXTERIOR PAINTING— Ladd AFB, Alaska

Bids will be opened 10:00 A.M., A.S.T., May 29, in the base procurement office, Ladd AFB, for painting exterior of 93 buildings at Ladd AFB; IFB 65-500-58-128. Bid guaranty not less than 20%. RG 5-14

▲DENTAL OFFICE BUILDING— Spenard, Alaska

Six bids received by John E. Miller, D.D.S., 1000 Fireweed Lane, Spenard, in office of Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage, for constructing dental office building in Hillstrand Subdivision, Spenard. Bids opened May 9. TWO LOW: Arctic Alaska Contractors, Palmer Highway, Anchorage, $44,579; Sandland Construction

Co., Box 193, Spenard, $47,380. HI: H. T. Marshall, 1341 Hillcrest Drive, Spenard, $51,665. AL 5-13. Previous report 5-6

SCHOOL BASEMENT REMODELING— Whittier, Alaska

Foss, Olsen & Sands, architects, 109 W. 3rd St., Juneau, have been retained according to Housing and Home Finance Agency, 1107 I St., Anchorage, to prepare plans for remodeling the basement of the school in Whittier to provide a play area and small science room; Proj. AAA58-C-FED-9A-8. AL 5-8. Previous report 3-2(

● MAINTENANCE, STORAGE SHOP— Wildwood Station, Alaska

Bids to be opened 2 p.m., A.S.T., June 5, by Corps of Engineers, Box 1288, Anchorage for constructing vehicle maintenance shop and storage at Wildwood Station, Alaska; ENG-95-507-58-47. Plans with Anchorage office. Sched. A—181' long basic vehicle maintenance shop, utilities, crushed gravel surfacing. Sched. B—198' basic building plus bay, utilities, surfacing Sched. C—214' basic plus two bays, utilities, surfacing. Sched. D—schedule C plus asphaltic concrete paving. DM 5-10

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

▲SITE CLEARING— Ashland, Ore.

Nineteen bids received by Bureau of Reclamation, Camp White, Ore., for completion of clearing and removal of improvements from Howard Prairie reservoir site in Jackson County, about 27 mi. by road in an easterly direction from Ashland; Spec. No. 100C-328. Bids opened May 8. TWO LOW: R & P Construction Co., Star Route 1, Box 86, Shelton, Wash., $51,940; J. M. Ollis, Box 211, Cave Junction, $74,680. HI: Modern Excavating, Inc., 6734 E. Marginal Way, Seattle, $278,500. SP 5-13. Previous report 4-9

▲DRIFT BARRIER, REVETMENT— Buena Vista, Ore.

Low bid of $24,007, was submitted by L. C. Daniel, 745 E. 20th, Eugene, to Corps of Engineers, Portland district, 628 Pittock Block, Portland, for bank protection in Willamette River Basin, involving construction of steel-rail drift barrier and stone revetment at the upstream end of Location 3, Krebs Property, on the right bank of the Santiam River, about two mi. southeast of Buena Vista; CIVENG-35-026-58-160. Eleven bids ranging to high of $40,675 were received May 7. WB 5-13. Previous report 5-9

● CLEARING, GRADING, FINISH ROAD— Cougar Reservoir, Ore.

Bids to be opened 2 p.m., P.S.T., June 10, by Corps of Engineers, 625 Pittock Block, Portland, for constructing relocated U.S. Forest Service West Side Road, dam area at Cougar Reservoir on South Fork McKenzie River about eight mi. south of Blue River, Lane County, Ore.; CIVENG-35-026-58-191. Plans with above office. Bid bond 20%.

Quantities: 11 acre clearing; 6 acre roadway grubbing; 455,000 c.y. unclassified excavation; 160 c.y. structure excavation; 0.5 mi. finished road, slopes; 130 M gal. sprinkling; 950 c.y. leveling course; 360 c.y. leveling course material in stockpile; 400', 18" corrugated metal pipe culvert. DM 5-13

★ZINC CREEK BRIDGE— Douglas County, Ore.

Award to Hamer Corp., Box 428, Roseburg, $44,099, by U.S. Forest Service, 729 N.E. Oregon St., (Box 4137), Portland, for construction of 180' long, single lane reinforced concrete Zinc Creek Bridge, with 1,500' of road approaches, across South Umpqua River, Douglas County, Umpqua National Forest, Ore.; Bid No. 308. WB 5-14. Previous report 5-7

WATER FILTRATION PLANT— Gladstone, Ore.

The voters of Gladstone have approved the plan to finance and construct a water filtration plant on the Clackamas River, east of Gladstone, rather than purchase water from the South Fork Water Board at West Linn and Oregon City. A bond election will be held later, according to Eugene Bauer, mayor. WB 5-14

● BARBED WIRE FENCE— Halfway, Ore.

Bids will be opened 2 p.m., May 19, by Bureau of Land Management, 1001 N.E. Lloyd Blvd., Portland, for construction of approximately 14 mi. of barbed wire fence south of Halfway in Baker County; Inv. No. 933. Fence consists of steel posts, treated wood posts for braces and rock jacks, four strands of barbed wire, and wire gates at road and trail intersections. WB 5-13

● BANK PROTECTION— Harrisburg, Ore.

Bids will be opened 2 p.m., P.S.T., June 11, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of bank protection works at Gavette Location along the left bank of the Willamette River, about ½ mi. southwest of Harrisburg; CIVENG-35-026-58-188. Specifications with above office.

Quantities: 5,810 c.y. (a) and 2,490 c.y. (b) bank excavation; 2,290 c.y. (a) and 980 c.y. (b) toe trench excavation; 5,880 c.y. (a) and 2,520 c.y. (b) derrick stone; clearing; 17,823' install steel rail piling; 1,827' install steel rail wale. LB 5-13

● STORM DRAIN REPAIRS— Kingsley Field, Ore.

Bids will be opened 10 a.m., June 3, by George Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, Klamath Falls, for repairing storm drainage system at Kingsley Field; Inv. No. 58-22. Specifications with above office.

Involves furnishing 11,200' of 8" to 24" concrete pipe; installing 50 catch basins or drain inlets complete with galvanized frames and grates; 1,200' trench excavation; constructing 1,120 sq. ft. of 4" concrete walks. ZZ 5-7

● GRADING, PAVING— Medford, Ore.

Bids to be opened 3 p.m., May 22, by Tom Williams, superintendent, Crater Lake National Park, Post Office Bldg., Medford, for grading and paving utility area at park headquarters and reconstructing and paving road intersection at Annie Spring. Plans with above office. Quantities: approximately 4,700 c.y. excavation, drainage, 5,400 c.y. hauling and placing crushed rock, 50 ton asphalt, 1,100' curbing. DC 5-13

● ELECTRIC POWER MODIFICATION— North Bend AFS, Ore.

Bids to be opened 2:15 p.m., June 4, by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for modification to electric power supply facilities at North Bend Air Force Station; ENG-45-108-58-144. Specifications with above office.

Work consists of constructing one pole mounted and pole structure substation with three single phase 167-kva 7200/12470-primary, 120/240 secondary transformers and appurtenances; two pad mounted secondary substation each with three single phase primary 120/240 secondary transformers and appurtenances; underground conduit and wiring together with connection to existing aerial distribution system. SP 5-

★ROAD RELOCATION— Oakridge, Ore.

Award to Goodfellow Bros., Inc., Box 38 Wenatchee, Wash., $878,796, by Corps of Engineers, 628 Pittock Block, Portland, for construction of relocated U.S. Forest Service West Side Road, Packard Creek to Upper End, Hills Creek Reservoir on the Middle Fork Willamette River, about 9 mi. southeast of Oakridge, Lane County, Ore.; CIVENG-35-026-58-143. WB 5-9. Previous report 4-

● DRILL WELL, INSTALL WATER TANK— Portland, Ore.

Bids to be opened 10 a.m., P.S.T., May 21, by Oregon State Game Commission, 1634 S.W. Alder (Box 4136), Portland, for 1. drilling well, 2—constructing 30,000-gal. elevated water storage tank, steel tower, yoke ing, piping. Both projects are located on commission property on Highway 30 at Gnat Creek about 22 mi. east of Astoria, Clatsop County. Plans with above office. Certified check or bid bond 10%. Separate bids on each project. DM 5-

● STREET IMPROVEMENTS—Portland, Ore.

Bids will be opened 10:30 a.m., May 22, by Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for three street improvement projects. Plans with roadmaster's office, 2115 S.E. Morrison St. $2 charge. Certified check or bid bond 10%.

PROJ. D-291—Grading, asphaltic concrete surfacing on N.E. Beech St. from 57th to 61st Ave. PROJ. D-292—Grading, asphaltic concrete surfacing, installation of curbs and grading of sidewalk areas on N.E. Flanders St. from 181st Ave. to 184th Place. PROJ. D-293—Grading, placing rock base, construction of concrete curbs and driveways, and asphaltic concrete surfacing on N.E. 12th Ave. from Halsey St. 317' south. WB 5-

▲ALUMINUM TAGS— Portland, Ore.

Fifteen bids received by U.S. Forest Service, 729 N.E. Oregon St., room 209, Portland (Box 4137), for 50,000 aluminum tree marking tags, fob Portland; Inv. No. 316. Bids opened May 8. TWO LOW BIDS: National Band & Tag Co., Newport, Ky., $11.75 per thousand; The Keys-Davis Co., Battle Creek, Mich., $11.85. HI BID: Centis-Stencil Work, Inc., New York, N.Y., $31.00. WB 5-13. Previous report 4-

★STATE HIGHWAY PROJECTS— Portland, Ore.

Seven contracts awarded and one project referred to engineer for award, by Oregon State Highway Commission, on projects which bids were opened May 9 in Portland.

GRADING, PAVING, Columbia Blvd., South City Limits in St. Helens—Grading, paving 0.62 mi. Columbia River Highway, Columbia County; a State Project.

AWARD: Central Heating Co., 865 Oak, Eugene, $26,376.

PAVING, Poplar St. and 4th Ave., Powers—Stone base and paving 0.42 mi. of streets, Coos County; a City Project.

AWARD: Woodward & Son & Barker, 910 Knott, Portland, $16,679.

BUILDING, Burns—Construct 36'x68' masonry block maintenance building, Harney County; a State Project.

AWARD: Endicott Logging, Prineville, $22,230.

PAINTING BRIDGE, Hendricks Bridge—Clean, painting bridge over McKenzie River 11.5 mi. east of Pacific Highway on McKenzie Highway, Lane County; a State Project. Involves 192 ton steel.

AWARD: J. E. Brown Co., 1000 S.E. 11th, Portland, $5,568.

FENCING, Beverly Beach Park—About 3 rods type 3 fence on Oregon Coast Highway about 6.2 mi. south of Depoe Bay on Oregon Coast Highway, Lincoln County; a State Project.

No bids received.

GRADING, Saddle Butte-Twin Buttes Section—Grading 6.66 mi., Pacific Highway about 13 mi. south of Albany, Linn County; FAIP No. I-5-4(16)215.

Low bid of R. A. Heintz Construction Co., 211 N.E. Columbia, Portland, $1,037,844, was referred to engineer for award.

BRIDGES, Snake River—Construct twin bridges 968' in length, 1.5 mi. south of Ontario on Old Oregon Trail Highway, Malheur County; FAP No. I-3021(10).

AWARD: Hansen & Parr Construction Co., W. 315 Boone, Spokane, $952,650.

STRUCTURE, GRADING, PAVING, Hollady Connection to Banfield Expressway—Grading, paving, 364' reinforced concrete structure near S.E. 16th in Portland, Multnomah County; FAP No. I-323(23).

AWARD: C. J. Montag & Son, 7805 N.E. Halsey, Portland, $172,934.

GRADING, PAVING, STRUCTURE, E. Unit, Shogren - Rowena Section — Grading, paving 2.48 mi., constructing reinforced concrete structure 3.3 mi. east of Mosier on Columbia River Highway, Wasco County; FAIP No. I-82-3(5)71.

AWARD: Rogers Construction Co., 11760 N.E. Glisan, Portland, $531,058.

DM 5-13. Previous report 5-10

★STATE HIGHWAY PROJECTS— Portland, Ore.

Eight projects awarded and six held for further consideration, by Oregon State Highway Commission at its May 8 bid opening in Portland.

SHED, Baker—Construct Dooley Mountain Summit sand shed, a 60'x80' frame structure, on Baker-Unit Highway, Baker County, about 15 mi. south of Baker; a State Project.

AWARD: H. G. Wirtz, 200 Highway 199, Grants Pass, $13,433.

GRADING, PAVING, 1st St. in Gladstone—Grading, asphaltic concrete paving 0.31 mi., Clackamas County; a City Project.

Low bid of Parker & Fuhrman, and Rich Valley Topsoil Co., 11524 S.E. Foster, Portland, $20,433, was referred to engineer for award.

TRAFFIC SIGNALS, Lincoln St. in Eugene—Construct 8 steel poles, two fixed time controllers, 8 vehicle signals on Pacific Highway, Lane County; a State Project.

AWARD: Steek Electric Co., 633 S.E. Stephens, Roseburg, $5,565.

OILING, Seven Roads—Oiling 44.43 mi., Division No. 3, North, on six state highways and one camp road near Dexter, Blue River, Blachly, Swisshome, Eugene, Florence, Reedsport, in Lane and Douglas counties; a State Project.

AWARD: J. C. Compton Co., U.S. National Bank Bldg., McMinnville, $51,528.

BRIDGE, Thiel Creek Section—Bridge replacement, Oregon Coast Highway, 3.2 mi. south of Newport, Lincoln County; AFP No. F-133(14).

AWARD: Isaacson Bros., Box 318, Cottage Grove, $15,786.

GRADING, Lebanon Road-Saddle Butte Section—Grading 6.5 mi., Pacific Highway about 6 mi. south of Albany, Linn County; FAIP No. I-5-4(16) 215.

Low bid of Roy L. Houck & Sons, 1585 N. 20th, Salem, $582,868, was referred to engineer for award.

BRIDGE, Santiam Overflow Bridge—Reconstruction 294' bridge with reinforced concrete precast beam and deck units, Linn County; FAP No. S-37(1).

AWARD: McCoy & Houck, Woodburn, $46,130.

BRIDGE REDECKING, Willamette River—Redeck lift span of steel bridge, Pacific Highway in Portland, Multnomah County; a State Project.

Low bid of Steel Construction Co. of Ore., 5300 N.W. Front, Portland, $119,600, was referred to engineer for award.

GRADING, Coleman Creek-Short Section—Grading 1.74 mi. Cape Meares Loop Road about 2 mi. north of Oceanside, Tillamook County; FAP No. S-1(5).

Low bid of Don Greene, 5445 N. River Road, Salem, $106,574, was referred to the engineer.

PAVING, Orchard Ave. and Maple Ave. in Hermiston—Stone base and paving 0.39 mi. Umatilla County; a City Project.

Low bid of Russell Olson Construction Co., Box 272, Pendleton, $25,192, was referred to engineer.

BUILDING, Ukiah—Construction 36'x40' masonry block addition to maintenance building on Pendleton-John Day Highway, Umatilla County; a State Project.

AWARD: Enoch I. Maerz, 3936 Hayesville Drive, Salem, $14,367.

STRUCTURE, GRADING, OILING, Cornelius-Blooming Road—Structure, grading, oiling, Tualatin River Overflow Bridge section, one mi. south of Cornelius, Washington County; FAP No. S-372(1).

Low bid of R. H. Jones, Route 1, Box 256, Hillsboro, $36,786, was referred to engineer.

GRADING, PAVING, Bridge St. in Sheridan — Grading, paving 0.32 mi., Yamhill County; a City Project.

AWARD: Central Paving Co., Independence, $16,093.

REMOVE DAYTON BRIDGE — Remove bridge over Yamhill River, Yamhill County; a State Project.

AWARD: Dayton Auto Wreckers, Dayton, $3,000. DM 5-10. Previous report 5-9

★TRANSMISSION LINE— Portland, Ore.

Award to Key Construction Co., 1601 Taylor Way, Tacoma, $159,149, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of Sched. 2 of the Santiam-Alvey section of McNary-Alvey 287-kv transmission line No. 1, beginning about two mi. southeast of Lebanon, extending about 18.6 mi. and terminating about three mi. north of Mabel, Linn and Lane counties, Ore.; Inv. No. 8710.

WB 5-10. Previous report 4-30

▲AIRPORT LANDSCAPING—Portland, Ore.

Four bids received by Port of Portland, 5848 N. Lagoon Ave., Portland, for landscape construction work at the Terminal Bldg., Portland International Airport, Portland. Plans by David E. Thompson, landscape architect, 319 Davis Bldg. TWO LOW BIDS: E. P. Baltz & Son, 9817 E. Burnside St., Portland, $23,987; Ernest Ferrante & Co., 3908 S.E. Bybee Blvd., Portland, $25,897. HI BID: F. A. Doerfler & Sons, 250 N. Lancaster Drive, Salem, $30,070. Bids opened May 8. WB 5-10. Previous report 5-1

●STREET IMPROVEMENT— Portland, Ore.

Bids will be opened 10:30 a.m., May 20, by Multnomah County Commissioners, J. W. West, purchasing agent, 504 County Courthouse, Portland, for grading, constructing rock base and surfacing with asphaltic concrete on S.E. Taylor St. from S.E. 115th Ave. to 117th Ave.; Proj. D-289. Plans with roadmaster's office, 2115 S.E. Morrison St. $2 charge. Certified check or bid bond 10%.

WB 5-10. Previous report 5-7

CHANNEL— Portland, Ore.

Public hearing has been postponed from May 15 to 9:30 a.m., June 5, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, in the auditorium of the Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, to determine the desires of interested parties for a 40' deep and 750' wide channel in the Columbia and Lower Willamette rivers from Vancouver, Wash., and Portland to the sea. SP 5-14

★LIGHTNING ARRESTORS—Portland, Ore.

Award to Ohio Brass Co., Mansfield, Ohio, $28,799, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for lightning arrestors; Inv. 8725.

WB 5-14. Previous report 4-22

■GRADING, BRIDGE— Portland, Ore.

Planholders announced for grading 2.557 mi. and constructing 95' reinforced concrete girder bridge, FHP 47-F2, North Umpqua Highway, Umpqua National Forest, Douglas County, Ore. Bids will be opened 10 a.m., May 21, by Bureau of Public Roads, 760 Morgan Bldg., Portland.

Planholders: Natt McDougall Co., 824 Pittock Block; Interstate Tractor & Equipment, 2855 N.W. Front; J. M. Arenz, 1601 N.E. Columbia Blvd.; Q. L. Rufener, 4729 S.E. Ash St.; Commercial Iron Works, 2021 S.E. Grand Ave. Of Portland, Merlin R. Stam, 1974 Pierce St.; Durbin Bros., Route 5, Box 590; Earl L. McNutt Co., 351½ E. Broadway. Of Eugene, Hamer Corp., Box 428, Roseburg; Mack Slate, Jr., 632 Washington St., Albany; Funderburk Construction Corp., Sutherlin; Lewis River Logging Co., 3716 Daniel St., Vancouver, Wash.; Shirley G. Stone, 2351 S.W. Market Road, Oswego; Floyd Grubb, 1305 S. 20th, Salem; Schutt Construction Co., Box 727, Springfield; S. and A. Log Co., Foster; Coos Bay Dredging Co., Box 217, Coos Bay.

WB 5-14. Previous report 5-7

■GRADING, BRIDGE— Portland, Ore.

Planholders announced for grading 18.714 mi. and constructing 170' reinforced concrete bridge, TARP BLM 60-A, Camp Creek Road, Bureau of Land Management-Coos Bay District, Douglas County, Ore. Bids will be opened 10 a.m., May 23, by Bureau of Public Roads, 760 Morgan Bldg., Portland.

Planholders: J. M. Arenz, 1601 N.E. Columbia Blvd.; Natt McDougall Co., 824 Pittock Block; Commercial Iron Works, 2021 S.E. Grand Ave.; J. N. Conley, 4332 N.E. Royal Court; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd.; J. Bacaloff Co., 6009 N.E. 60th Ave. Of Portland. Hamer Corp., Box 428; Henry H. Miller Contractor, 100 Grant Smith Road. Of Roseburg. Shirley G. Stone, 2351 S.W. Market Road, Oswego; Timber Access Industries Co., Box 507, Corvallis; A. L. Harding, Inc., Box 708, Stayton; Coos Bay Dredging Co., Box 217, Coos Bay; Earl L. McNutt Co., 351½ E. Broadway, Eugene; Tom Lillebo Construction Co., Box 365, Reedsport; P. G. Ellis, 4710 University Way, Seattle; Lewis River Logging Co., 3716 Daniel St., Vancouver, Wash.

WB 5-14. Previous report 5-7

▲SEWER SYSTEM— Portland, Ore.

Six bids received by city purchasing agent, 208 City Hall, Portland, for construction of the N. Ross Ave., N. Cherry St., and N. Clackamas St. sewer system for the Exposition-Recreation Center. Bids opened May 12. TWO LOW BIDS: System Construction Co., 8130 S.E. Tolman St., $39,921; R. A. Heintz, 211 N.E. Columbia Blvd., $43,825. HI BID: George W. Lind, 5000 N.E. Killingsworth St., $57,208. Of Portland.

WB 5-14. Previous report 5-7

■GRADING, SURFACING, BRIDGES— Portland, Ore.

Planholders announced for 0.205 mi. grading, surfacing, and reinforced concrete bridges totaling 265', FDRP Willamette 210-A, Hills Creek Road, Willamette National Forest, Lane County, Ore. Bids will be opened 10 a.m., May 20, by Bureau of Public Roads, 760 Morgan Bldg., Portland (Box 3900).

Planholders: Natt McDougall Co., 824 Pittock Block; Teeples & Thatcher, 8850 S.E. Otty Road; Valley Construction Co., 6100 N.E. Columbia Blvd. Of Portland. Hamilton & Thoms, Inc., Box 726; Merlin R. Stam, 1974 Pierce St.; C. H. Strong, Box 366. Of Eugene. H. G. Carl Construction Co., 1210 S. 22nd St.; Floyd Grubb, 1305 S. 20th. Of Salem. Henry G. Stach, Box 431; M. R. Holst Co., Box 171. Of Oakridge. Tom Lillebo Construction Co., Box 365, Reedsport; Mack Slate, Jr., 632 Washington St., Albany; Sig Andersson, 1371 Bayview Ave., North Bend; C. P. Patterson, 628 W. Glacier Ave., Redmond; Lundmark Bros., Colton; R. & M. Construction Co., Box 426, Central Point.

WB 5-14. Previous report 5-3

★BITUMINOUS PAVING— Portland, Ore.

Award to Central Heating Co., Oregon Ltd., 102 High St., Eugene, $364,055, by Bureau of Public Roads, 760 Morgan Bldg., Portland, for 21.309 mi. bituminous paving, Oregon Umpqua Highway, Umpqua National Forest, Douglas County; FHP 47-A5, B6, C4, D5, E2. Seven bids received for May 13 opening. 2ND LOW: J. C. Compton Co., McMinnville, $385,165. HI: Babler Bros., 4617 S.E. Milwaukie, Portland, $537,746.

WB 5-14. Previous report 5-10

■BRIDGE, APPROACH GRADING— Portland, Ore.

Planholders announced for constructing 120' reinforced concrete bridge and approach grading, TARP BLM 31-A, Fish Creek Road, Bureau of Land Management-Eugene District, Lane County, Ore. Bids will be opened 10 a.m., May 22, by Bureau of Public Roads, 760 Morgan Bldg., Portland.

Planholders: Natt McDougall Co., 824

Pittock Block; Teeples & Thatcher, 8850 S.E. Otty Road; Valley Construction Co., 6100 N.E. Columbia Blvd. Of Portland. Hamilton & Thoms, Inc., Box 726; Merlin R. Stam, 1974 Pierce St.; C. H. Strong, Box 366. Of Eugene. H. G. Carl Construction Co., 1210 S. 22nd St.; Floyd Grubb, 1305 S. 20th. Of Salem. Henry G. Stach, Box 431; M. R. Holst Co., Box 171. Of Oakridge. Tom Lillebo Construction Co., Box 365, Reedsport; Mack Slate, Jr., 632 Washington St., Albany; Sig Andersson, 1371 Bayview Ave., North Bend; C. P. Patterson, 628 W. Glacier Ave., Redmond; Lundmark Bros., Colton; R. & M. Construction Co., Box 426, Central Point.

WB 5-14. Previous report 5-7

PRINEVILLE DAM— Prineville, Ore.
(Estimated cost $6,247,000)

Bid opening of June 12 postponed indefinitely by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for constructing 790' long at crest, 180' high, 153,000-acre ft. storage capacity, earth fill dam on the Crooked River about 21 mi. southeast of Prineville; Spec. No. DC-5047.

SC 5-14. Previous report 5-1

★STATE HIGHWAY PROJECTS— Salem, Ore.

Fifteen projects awarded and two referred for award to low bidder, by Oregon State Highway Commission on projects on which bids were opened in Salem on April 17.

OILING, Alsea Jct.-Beaver Creek School Section—Oiling 4.64 mi. Alsea Highway-Greenberry Road, Benton County; FAP No. S-139(5).

AWARD: Babler Bros., Inc., 6417 S.E. Milwaukie, Portland, $30,200.

BRIDGE, Muddy Creek—Construct 200' reinforced concrete bridge with precast beams on treated timber piles, on Corvallis Airport Road, 2½ mi. west of Pacific Highway west, Benton County; a County Project.

Low bid of R & M Construction Co., 136 Main, Central Point, $39,502, referred to Benton County for award.

BRIDGE PAINTING, Oregon Coast Highway—Clean and paint John Day River Bridge (75 tons) 5½ mi. east of Astoria on Columbia River Highway; Lewis and Clark River Bridge (150 tons) 5 mi. west of Astoria; Nehalem River Bridge (150 tons) at Nehalem, Clatsop County; a State Project.

AWARD: Collins & Foss, 5323 S. Broadway, Los Angeles, $12,375.

GRADING, Burnt Hill-Hooskanaden Creek Section—Grading 3.55 mi. of Oregon Coast Highway about 16 mi. south of Gold Beach, Curry County; FRBP-BF-124(13).

Low bid of Peter Kiewit Sons' Co., Box 1777, Vancouver, $1,318,441, referred to engineer for award.

PAVING, BRIDGE, Shady-Roberts Creek Section—Grading, paving for 1.73 mi. and constructing one reinforced concrete structure on Pacific Highway about 5 mi. south of Roseburg, Douglas County; FAIP No. I-78(41).

AWARD: C. R. O'Neil, 2525 Highway 99 S., Grants Pass, $300,483.

PAINT FIVE BRIDGES—Clean, paint five bridges: Tiller Bridge (77 tons) and Days Creek Bridge (75 tons) over South Umpqua River on Tiller-Trail Highway; and 1st (95 tons), 3rd (110 tons) and 4th (75 tons) crossings at Elk Creek on Umpqua Highway, Douglas County; a State Project.

AWARD: O & S Painters, Route 2, Box 153, Tigard, $9,730.

SIGNALS, ILLUMINATION—Install signals and illumination in Medford, Jackson County; a State Project.

AWARD: Trowbridge & Flynn, 214 W. Main, Medford, $27,461.

OILING, Agency Plains Section — Stone base and oiling 12.11 mi. on three county roads about 5 mi. north of Madras, Jefferson County; FAP Nos. S-106(2), S-367(1), S-368(1).

AWARD: Porter W. Yett, 6500 N.E. Ainsworth, Portland, $137,575.

PAVING, Eugene Airport Jct. Section—Stone base, paving 0.26 mi. of Pacific Highway west about 4 mi. north of Eugene, Lane County; a State Project.

AWARD: Central Heating Co., 865 Olive, Eugene, $11,548.

STOCKPILING, Deerhorn - Belknap Camp Rock Production—Stockpiling about 12,660 c.y. crushed rock on McKenzie Highway about 13 mi. east of Springfield, Lane County; a State Project.

AWARD: C. C. Meisel, Box 206, McMinnville, $42,531.

BRIDGE, Siuslaw River—Bridge at Richardson on Richardson-Eugene Highway, Lane County; FAP No. S-234(12).

AWARD: Sig Andersson, North Bend, $66,535.

PAINT BRIDGES, Oregon Coast Highway—Clean, paint Yachats (80 tons), Siletz (150 tons) at Yachats and Kernville, Lincoln County; a State Project.

AWARD: Collins & Foss, Los Angeles, $7,590.

BRIDGE, Big Elk Creek—Construct 206' reinforced concrete bridge on treated timber piles near Elk City, 9 mi. east of Toledo on County Road No. 584, Lincoln County; FAP No. S-176(3).

AWARD: Lundmark Bros., Colton, $40,717.

OILING, STOCKPILING, STRUCTURE, Gilliam County Line-McNab Section—Oiling 5.64 mi. and constructing one reinforced concrete structure, also furnishing crushed materials in stockpile on Olex-McNab Road about 21 mi. northwest of Heppner, Morrow County; FAP No. S-163(2).

AWARD: Babler Bros., Inc., Portland, $63,743.

GRADING, Rooster Rock-Multnomah Falls Section—Grading 6.63 mi. Columbia River Highway about 25 mi. east of Portland, Multnomah County; FAIP No. I-82-2(5)22.

AWARD: Rogers Construction Co., 11760 N.E. Glisan, Portland, $509,343.

PAVING, Athena (2nd St.) Section—Stone base, paving 0.50 mi. in Athena, Umatilla County; a City Project.

AWARD: K. C. Dack Construction Co., S.W. Court, Pendleton, $20,107.

GRADING, OILING, Union—Grading, oiling 0.39 mi. on Bellwood Ave. in Union, Union County; a City Project.

AWARD: Arthur Simonsen, 2925 Grandview, Baker, $34,449.

DM 5-10. Previous report 4-18

●STORM, SANITARY SEWERS— The Dalles, Ore.

Bids to be opened 4 p.m., May 19, by John B. Thomas, city clerk-treasurer, City Hall, The Dalles, for storm and sanitary sewer construction, involving work on the I St. storm sewer south from E. 12th St. and on three sections of the Mt. Hood interceptor sanitary sewer from W. 8th St. to W. 9th St., from W. 9th to W. 10th St. and from 10th to W. 14th St., The Dalles. Specifications with city engineer, City Hall. $30 deposit.

Quantities: 2,720 c.y. common excavation; 250 c.y. solid rock excavation; 3,470' concrete sewer pipe; 13 manholes; 27 c.y. crushed rock; 50 c.y. cushion material; 15 ton asphaltic concrete.

SC 5-14

▲WATER STORAGE FACILITIES— Umatilla, Ore.

Bids received May 8 by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of permanent water storage facilities, including concrete tank, pumphouse, and water lines, at McNary Lock and Dam, near Umatilla; CIVENG-45-164-58-50.

Five bids received. LOW BIDS—SCHEDULE A: George A. Moore & Associates, 923 S.W. 17th, Portland, $28,428; Thompson & Georgeson, 1924 S.E. 6th Ave., Portland, $45,685. HI BID: John Kovtynovich, 395 Skyline Loop, Eugene, $55,000. SCHEDULE B: George A. Moore, Portland, $47,696; Thompson & Georgeson, Portland, $54,390. HI BID: George A. Grant, 832 W. Marie, Pasco, $55,597. SCHEDULE C: Rushlight Auto Sprinkler, Inc., 55 N.E. Farragut, Portland, $41,135; Thompson & Georgeson, Portland, $97,285. HI BID: John Kovtynovich, Eugene, $114,590. Government estimate, $42,000, $52,904, $96,164.

LB 5-9. Previous report 4-15

●REINFORCED CONCRETE BRIDGES— Umpqua National Forest, Ore.

Bids to be opened 2 p.m., May 29, by U.S. Forest Service, in office of the regional supply officer, 729 N.E. Oregon St., room 207 (Box 4137), Portland, for construction of reinforced concrete Black Rock Creek Bridges Nos. 1 and 2 on Black Rock Road No. 2829, Umpqua National Forest, Douglas County, Ore.; Bid No. 355. Specifications with above office. Certified check or bond 5%.

Sites are located across Black Rock Creek in Douglas County. Bridge sites may be reached by leaving Oregon State Highway No. 227 at Tiller and going up the South Umpqua Road No. 284 about 28 mi. to the junction with Black Road No. 2829. Then proceed up Road No. 2829 2.5 mi. to Black Rock Creek Bridge No. 1 site. Black Rock Creek Bridge No. 2 site is at about mile post 4.5 on Road No. 2829.

Quantities—BRIDGE No. 1: 110 c.y. unclassified excavation for structure and backfills; 158 c.y. concrete; 36,500 lb. reinforcing steel; 243' beam type guardrail. BRIDGE No. 2: 150 c.y. unclassified excavation for structures and backfills; 138 c.y. concrete; 32,000 lb. reinforcing steel; 204.5' beam type guardrailing.

SP 5-

●ALSEA RIVER BRIDGE— Waldport, Ore.

Bids will be opened 2 p.m., May 27, by U.S. Forest Service, M. M. Holzwarth, acting regional supply officer, 729 N.E. Oregon St., Portland, (Box 4137), for construction of reinforced concrete, double lane, 185' Alsea River Bridge, near Waldport, Siuslaw National Forest, Lincoln County, Ore.; Bid No. 353. Plans with supply officer, Forest Supervisor, Smith Bldg., Corvallis.

Bridge will be just downstream from existing covered wood truss bridge on Five Rivers Rd., near its junction with Oregon Highway No. 34. Junction is about 20 mi. from Waldport, and about 20 mi. from Alsea. Quantities: 410 c.y. concrete; 102,500 lb. reinforcing steel; 375' beam type guard rail.

WB 5-

WASHINGTON

▲SEWER SYSTEM— Aberdeen, Wash.

Two bids received on each contract May 7 by city clerk, City Hall, Aberdeen, for construction of interceptor sewers in the city. Specifications by Stevens & Thompson, consulting engineers, 2334 S.W. 4th Ave., (Box 508) Portland, Ore. BIDS—CONTRACT 1: Northwood, Inc., 4232 S.E. Cora St., Portland, $714,836; Valley MK Co., 7722 Rainier Ave., Seattle, $966,680. CONTRACT 2: Northwood, Inc., Portland, $416,778; Valley MK Co., Seattle, $611,396. CONTRACT 3: Harold Kaeser, 3629 34th Ave. S., Seattle, $517,228; Valley MK, Seattle, $786,137. CONTRACT 4: Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam, $115,907; Valley MK, Seattle, $134,634.

WB 5-9. Previous report

▲FISH STATION CONSTRUCTION— Abernathy Creek, Wash.

Eleven bids received by Samuel J. Hutchinson, regional director, Fish and Wildlife Service, The Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, for constructing reinforced concrete structures, raceway ponds, holding pond and fish ladder, intake structure and chambers, hatchery building, residence quarters, spawning channel, concrete reservoir, sewer, water system, roads, miscellaneous related work at Abernathy Creek Fish Cultural Station, 15 mi. west of Longview, Cowlitz County, Wash. Bids opened May 12. TWO LOW: Quoidbach Construction Co., 1422 Commerce, Longview, $[illegible]; G. R. Leischner Construction Co., 1281 92nd, Seattle, $307,770. HI: Teller Construction Co., 845 N. Graham St., Portland, $[illegible] 967. Government estimate, $320,000.

WB 5-13. Previous report

★WATER SUPPLY MAIN— Anacortes, Wash.

Awards to Shoreline Construction Co., 12519 15th N.E., Seattle, $13,451 (Sched. A), $31,288 (Sched. B) and B & B Plumbing and Heating, 2917 Commercial, Anacortes, $[illegible] (Sched. C) by City Council, Anacortes, for installing 11,000' of 36" steel pipe and concrete cylinder pipe water supply main and miscellaneous appurtenances. Consulting engineers: Carey & Kramer, 1917 1st Ave., Seattle. For detail on each schedule see PCD 5-3.

SC 5-14. Previous report

▲OILING— Belfair State Park, Wash.

Bids received by State Parks and Recreation Commission, 100 Dexter Ave., Seattle

for roadway parking area oiling at Belfair State Park, Mason County.
Three bids received May 13. LOW: Ace Paving Co., Route 2, Box 56, Bremerton, $8,328. HI: North Kitsap Gravel and Asphalt Co., Route 2, Box 733-A, Poulsbo, $10,-404.
LB 5-14. Previous report 5-8

●WATER MAINS— Bellevue, Wash.

Bids will be opened 8 p.m., June 2, by Bellevue Water District No. 68, Richard Montgomery, secretary, King County, S.E. 7th St. and 98th Ave. S.E., Bellevue, for furnishing and installing 3,050' of 6" asbestos-cement pipe and appurtenances or 3,050' of 8" pipe, in the Bellevue area. Specifications with Howard T. Harstad & Associates, 1000 Lenora St., Seattle. $10 deposit. LC 5-10

★TRUNK SEWER— Bellingham, Wash.

Award to Croy Construction Co., 2502 Lakeway Drive, Bellingham, $76,260, by City Council, City Hall, Bellingham, for constructing Lincoln St.-Lakeway Drive-Consolidation Ave. sanitary trunk sewer.
ET 5-9. Previous report 5-6

■GRADING, SURFACING, BRIDGE— Colville, Wash.

Planholders announced for grading and surfacing 8.448 mi. road and constructing one timber trestle, reinforced concrete deck bridge 51' long on Silver Creek Road, Colville Indian Reservation, 30 mi. northeast of Wilbur, Proj. CIR 1(1); for grading, surfacing 8.904 mi. Owhi Lake Loop Road, Colville Indian Reservation, five mi. east of Nespelem, Wash., Proj. CIR 19(1). Bids to be opened 1:30 p.m., May 20, by Bureau of Indian Affairs, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, Ore. Separate bids on two projects.
Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; K. C. Dack Construction Co., Box 642, Pendleton, Ore.; D. A. Sullivan, Box 37, Parkwater Station, Spokane; F. R. Hewett Co., Box 36, Parkwater Station, Spokane; S. B. Spencer & Sons, 4614 N.E. 72nd, Vancouver; C. E. Oneal, Inc., Ellensburg; Natt McDougall Co., 824 Pittock Block, Portland; Russell-Gillett Co., Box G, Cle Elum; M. F. Castle Co., N. 10303 Division, Route 5, Spokane; Carl Hohner & Sons, Inc., 730 W. Chelan, Spokane; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; J. F. Konen Construction Co., Inc., 715 D St., Lewiston; Materne Bros. Co., Box 6052, Garland Station, Spokane; Carbon Bros., N. 3430 Cook St., Spokane; Stoen Construction Co., 2210 E. 85th, Seattle; A. R. Sime, Box 604, Kennewick; Western General Construction Co., 7721 30th S.W., Seattle.
Murphy Bros., Box 2193, Spokane; James Crick & Sons, Box 102, Yardley; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; S & S Construction Co., Colville; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; Goodfellow Bros., Inc., Box 1337, Wenatchee; Leo J. Lavin, Coulee City; J. W. Hardison Co., Box 48, Yakima; Henry Gannon, Box 1148, Othello; Floyd R. Grubb, 1365 20th St. S.E., Salem, Ore.; Sutherland Construction Co., Wilbur; Leroy Basto, Box 982, Pasco; Barney Rickard, Keller; W. J. Halleran, 13000 Empire Way, Seattle; Frank G. Bauine, E. 14215 Broadway, Spokane; J. P. Surace Construction Co., 3238 Seaview Ave., Seattle. PD 5-14. Previous report 5-1

★BALLASTING, BITUMINOUS SURFACING— Dayton, Wash.

Award to Hardisty Construction Co., Inc., Medical Arts Bldg., Vancouver, $13,339, by Columbia County Commissioners, Courthouse, Dayton, for ballasting and light bituminous surfacing on 1.28 mi. Whetstone Hollow Road. Bids opened May 5.
DM 5-9. Previous report 4-23

●FIRE TRUCK— Enumclaw, Wash.

Bids will be received until 8 p.m., May 26, by Fire Commissioners, King County Fire Protection District No. 28, Enumclaw, for furnishing one 750 G.P.M. pumper fire truck. Specifications with City Hall, or Fire Chief, Enumclaw. PC 5-13

▲DRAINS, WASTEWAY— Ephrata, Wash.

Twelve bids received May 8 by Bureau of Reclamation, Box 368, Ephrata, for additional drains and wasteway, Blocks 72, 74 and 75 and additional delivery facilities, Block 79, south of Quincy, Grant County, Wash.; Spec. No. 117C-508. LOW BIDS: Sybion-Reid Construction Co., P.O. Box 587, Warden, $39,564; Utility Construction Co., Ontario, Ore., $42,870. HI BID: Osberg Construction Co., 1132 N. 128th, Seattle, $72,221. Engineer's estimate $50,980.
LB 5-9. Previous report 4-17

▲PROTECTIVE FENCING— Ephrata, Wash.

Two bids received by Bureau of Reclamation, Box 368, Ephrata, for furnishing and erecting additional protective fencing at existing pumping plants in Grant and Franklin Counties, Columbia Basin Project, Wash.; Spec. No. 117C-150. Bids opened May 13. BIDS: San Jose Steel Co., Inc., 131 W. Massachusetts, Seattle, $3,393; Colorado Fuel and Iron Corp., E. 4320 Trent, Spokane, $3,510. Government estimate, $2,450.
SP 5-14. Previous report 4-17

▲DISCHARGE PIPELINE— Ephrata, Wash.

Four bids received by Bureau of Reclamation, Box 368, Ephrata, for discharge pipeline from Well X, Soap Lake Protective Works, about ½ mi. southwest of Soap Lake, Grant County, Wash.; Spec. No. 117C-509. Bids opened May 13. LOW: Yager Construction Co., Box 895, Ephrata, $7,641. HI: Glenn Dusky, Box 327, Moses Lake, $9,598. Government estimate, $6,209.
SP 5-14. Previous report 4-17

●DRAINS, UNDERDRAIN— Ephrata, Wash.

Bids will be opened 10 a.m., June 11, by Bureau of Reclamation, Box 368, Ephrata, for constructing DE236 and DE236A drains and underdrain for Weber Wasteway Chute, Grant County, Columbia Basin Project, about 9 mi. southeast of Moses Lake; Spec. No. 117C-514. Specifications with above office.
Quantities: 47,760 c.y. excavation; 5,710 c.y. backfill; 980 bbl. cement; 660 c.y. concrete; 7,423' nonreinforced concrete sewer pipe; 420' concrete culvert pipe; 82' corrugated metal pipe. RG 5-14

▲OPERATIONAL ALERT APRON— Fairchild AFB, Wash.

Four bids received May 9 by Corps of Engineers, Seattle district, 4735 E. Marginal Way, Seattle, for an Alert Operational Apron, at Fairchild AFB, Wash.; ENG-45-108-58-115. LOW BIDS: Gibbons & Reid, Box 2429, Salt Lake City, Utah, $1,262,782; Morrison-Knudsen, Inc., 603 Hoge Bldg., Seattle, $1,271,676. HI BID: Troy B. Hood, Opportunity, $1,349,917. Government estimate $1,476,009. Work consists of paving 54,000 sq. yds. aircraft stub parking apron and taxiway with 18" of portland cement concrete plus 16,000 sq. yd. asphaltic concrete paving; grading, lighting; drainage fuel pipelines. LB 5-10

▲SANITARY SEWER LINE— Fort Lewis, Wash.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for construction of sanitary sewer line B, Increment No. 1, Fort Lewis; ENG-45-108-58-94.
Ten bids received at May 13 bid opening. LOW BIDS: Kendall Construction Co., 3211 Center St., Tacoma, $177,725; E. J. Rody & Sons, Route 11, Box 106, Tacoma, $203,982. HI: R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland, Ore., $257,709. Government estimate $278,951.
PD 5-14. Previous report 5-3

▲SIDEWALK, DRIVEWAY, PARKING AREA REPAIRS— Goldendale, Wash.

Three bids received May 6 by Klickitat County Commissioners, Courthouse, Goldendale, for improvements to courthouse sidewalks, driveway, aprons, parking areas, Goldendale. BIDS: Van Godby, Goldendale, $9,413; Dean Gillenwater, Goldendale, $10,-413; Charles R. Schmiedeskamp, 1008 S.W. 6th, Portland, $13,642.
DM 5-9. Previous report 4-30

▲OPERATIONAL ALERT APRON— Larson AFB, Wash.

Bids received by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for operational ale t apron, fiscal year 1958 supplemental program, Larson AFB; ENG-45-164-58-52.
Four bids received May 13. BIDS: Peter Kiewit Sons Co., Box 1777, Vancouver, $1,601,054; N. Fiorito Co., 844 W. 48th, Seattle, $1,611,687; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata, $1,794,928; Gibbons & Reed Co., Box 2429, Salt Lake City, Utah, $1,875,982. Government estimate $1,645,-973. LB 5-14. Previous report 4-16

●REINFORCED CONCRETE BRIDGE— Mt. Baker National Forest, Wash.

Bids to be opened 3 p.m., May 29, by U.S. Forest Service, in office of Regional Supply Officer, 729 N.E. Oregon St., room 207, Box 4137, Portland, for constructing reinforced concrete Skagit River Bridge on Newhalem Creek Road No. 376 about 300' easterly from State Highway 17A, Mt. Baker National Forest, Whatcom County, Wash.; Bid No. 356. Specifications with above office. Bid bond or certified check 5%.
Site is located across Skagit River on Newhalem Creek Road No. 376, about 300' southeasterly from State Highway 17A, just downstream from existing log stringer bridge. Project may be reached by going easterly on State Highway 17A toward Ross Lake and turning right to Newhalem Creek Road No. 376, just before entering the City of Newhalem, to bridge site staked on ground across Skagit River.
Quantities: 450 c.y. unclassified excavation for structures; 586 c.y. concrete, class A; 110 c.y. concrete, class B; 135,000 lb. reinforcing steel; 631' beam type railing. SP 5-14

SEWER SYSTEM—Mountlake Terrace, Wash.

Bids may be called by City Council, City Hall, Mountlake Terrace on installation of a city sewer system if voters approve a $1,400,000 bond issue in special election June 17. DC 5-7

●FENCING— Mukilteo, Wash.

Bids will be opened 2 p.m., May 27, in the procurement office, Paine AFB, for erection of 7' high security fence around Bldg. No. 401, Mukilteo; Inv. No. 58-96. Plans with above office. Bid bond 20%. HH 5-13

●WATER SYSTEM— Olympia, Wash.

Bids will be received until 8 p.m., P.S.T., June 11, by Public Utility District No. 1, 208 Seattle First National Bank Building, Olympia, Harvey Thompson, secretary, for furnishing and installing water system involving 3,900' of 4" to 8" asbestos-cement pipe and appurtenances. Plans with Howard T. Harstad & Associates, consulting engineers, 1000 Lenora St., Seattle. $15.00 deposit. Certified check, cashier's check, bid bond, 5%.
Project includes well pump installation (Sched. A): 2,400' of 4" and 8" class 150, asbestos-cement pipe, valves, hydrants, appurtenances (Sched. B); 1,500' of 6" same (Sched. C). PD 5-9

★STATE HIGHWAY PROJECT— Olympia, Wash.

Awards announced for three highway projects on which bids opened May 6 by Washington State Highway Commission, Olympia.
PAVING, Summit Lake Road to Hilltop—Clearing, draining, grading, cement treated base, bituminous surfacing, asphaltic concrete paving, installing illumination, 3.892 mi. SSH No. 9, Thurston County; FAP No. F-010-1(3). AWARD: Bocek Bros., Box 666, Hoquiam, $774,462.
PAVING BRIDGE WIDENING, New London North—Clearing, draining, grading, surfacing, cement treated base, bituminous surfacing, asphaltic concrete paving, widening three timber bridges, 3.627 mi. PSH No. 9, Grays Harbor County; FAP No. F-007-1(9). AWARD: Bocek Bros., Hoquiam, $314,582.
RECONSTRUCT BRIDGE, OFFICE BUILDING, Port Washington Narrows Bridge-Manette Toll Plaza—Draining, grading, surfacing, asphaltic concrete paving, reconstructing bridge approach span and constructing office building for Washington Toll Bridge Authority, Kitsap County; a State Project. AWARD: Shaffer Construction Co., 3409 Everett Ave., Everett, $63,412.
DE 5-14. Previous report 5-9

...HIGHWAY PROJECTS—
Olympia, Wash.

Planholders announced on 11 highway construction projects on which bids will be opened 10 a.m., May 20, by Washington State Highway Commission in Olympia.

PAVING, BRIDGE, Jct. SSH 2-A to Jct. SSH 1-A—Clearing, draining, grading, asphaltic concrete paving, reinforced concrete bridge on 2.884 mi. PSH Nos. 2 and 15, King and Snohomish counties; FAP Nos. U-025-1 (19), F-025-1(20).

Planholders: John P. Hopkins Co., Inc., Box 247, Mercer Island; Kathman Construction Co., Inc., Box 555, Kenmore; Peter Kiewit Sons' Co., Box 1777, Vancouver; J. J. Welcome Construction Co., Box 641, Redmond; R. L. Moss & Co., Box 37, Zenith; Shaffer Construction Co., 3409 Everett Ave., Everett; A. W. Stevens Contracting Co., 606 Fairhaven, Burlington; Natt McDougall Co., 824 Pittock Block, Portland, Ore.; J. N. Conley, 4332 N.E. Royal Court, Portland; Osberg Construction Co., 1132 N. 128th, Seattle; Puget Construction Co., Inc., 1811 Bush Place, Seattle; John E. Alexander, Inc., Box 3583, Seattle; Northwest Construction Co., 3950 6th N.W., Seattle; J. P. Surace Construction Co., 3238 Seaview, Seattle; Anderson & Stoen, 13501 Aurora, Seattle; Thomas Scalzo Co., 3211 Airport Way, Seattle.

BITUMINOUS SURFACING, Teanaway Jct. to Teanaway River—Clearing, draining, grading, bituminous surfacing, stockpiling mineral aggregates and maintenance rock, 3.39 mi. PSH No. 2, Kittitas County; FAP No. F-028-1(17).

Planholders: J. Arlie Bryant, Inc., and Clarence Braden, 3716 Skyview Drive, Spokane; Carbon Bros., N. 3430 Cook, Spokane; W. F. Herrett Co., 1619 Baldwin, Spokane; Murphy Bros., 3728 E. Broadway, Spokane; Newport Construction Co., 7031 N.E. Halsey, Portland, Ore.; J. N. Conley, 4332 N.E. Royal Court, Portland; C. E. Oneal, Inc., Box 270, Ellensburg; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; R. H. Sussex, 2850 State Highway 2-A, Bellevue; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Curtis Construction Co., Box 106, Spokane; Maurice Gredvig, Box 301, Yakima; J. W. Hardison Co., Box 38, Yakima; Max J. Kuney, N. 120 Ralph, Spokane; Russell-Gillett Co., Box G, Cle Elum; Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane; Frank G. Baulne, Inc., Box 84, Yardley.

PAVING, SURFACING, Vulcan to Quincy—Asphaltic concrete paving, bituminous surfacing 10.109 mi. PSH No. 10, Douglas and Grant counties; FAP No. F-030-1(12).

Planholders: F. R. Hewett Co., E. 5916 Baldwin, Spokane; Inland Asphalt Co., Box 4116, Station B, Spokane; Washington Asphalt Co., 309 W. 39th, Seattle; Max J. Kuney Co., N. 120 Ralph, Spokane; United Paving Co., Inc., Route 4, Box 150, Spokane; L. W. Vail Co., Inc., 1948 N. 4th, Pasco; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; Morrill Asphalt Paving Co., Inc., Route 6, Box 6179A, Wenatchee; Central Paving Co., Box 38, Independence, Ore.; Pieler Construction Co., Inc., 201 E. 8th, Port Angeles.

BRIDGE, SSH No. 1-A Undercrossing—Reinforced concrete box girder bridge on PSH No. 15, Snohomish County; FAP No. F-025-1(15).

Planholders: Wayne Construction Co., 3810 Stone Way, Seattle; J. A. Troxell, 4006 E. 38th, Seattle; Richard L. Martin Co., Box 482, Oswego, Ore.; Troy T. Burnham, 18666 Beverly Road, Seattle; Anderson Bridge Construction Co., 4130 S. Adams, Tacoma; A. W. Stevens Contracting Co., 606 Fairhaven, Burlington; Shaffer Construction Co., 3409 Everett Ave., Everett; Owens Bros., Box 551, Port Angeles; John E. Alexander, Inc., Box 3583, Seattle.

BRIDGE: Wood Creek—Reinforced concrete slab bridge on 0.03 mi. PSH No. 8, Klickitat County; FAP No. F-047-1(5).

Planholders: Marshall Construction Co., Box 1032, Hermiston, Ore.; John E. Alexander, Inc., Box 3583, Seattle; Owens Bros., Box 551, Port Angeles; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Troy T. Burnham, 18666 Beverly Road, Seattle; Richard L. Martin Co., Box 482, Oswego, Ore.

BITUMINOUS SURFACING, Herron Creek Vicinity—Draining, grading, bituminous surfacing 0.911 mi. SSH No. 4-A, Ferry County; FAS No. S-0282(1).

Planholders: Leo J. Lavin, Coulee City; Murphy Bros., 3728 E. Broadway, Spokane; J. W. Hardison Co., Box 38, Yakima; James Crick & Sons, Box 102, Yardley; Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane; Carl Hohner & Sons, Inc., 730 W. Chelan, Spokane.

ILLUMINATION, Lake Washington Floating Bridge — Install illumination, PSH No. 2, King County; a State Project.

Planholders: Concrete Technology Corp., 1123 Port of Tacoma Road, Tacoma; Line Materials Industries, Box 2077, Milwaukee, Wis.; Service Electric Co., Inc., 12304 32nd Ave. N.E., Seattle; Power City Electric, Inc., N. 920 Howard, Spokane.

PAVING, ILLUMINATION, Miller St. Intersection—Grading, surfacing asphaltic concrete paving, installing illumination 0.310 mi. PSH No. 2, Chelan County; a State Project.

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Line Materials Industries, Box 2077, Milwaukee, Wis.; R. L. Moss & Co., Box 37, Zenith; United Paving Co., Inc., Route 4, Box 150, Spokane; Morrill Asphalt Paving Co., Inc., Route 6, Box 6179A, Wenatchee.

SURFACING, PAVING, City of Cheney—Asphaltic concrete paving, bituminous surfacing 0.918 mi. PSH No. 11, Spokane; a State Project.

Planholders: American Bitumuls and Asphalt Co., Box 4062, Portland, Ore.; Inland Asphalt Co., Box 4116, Station B, Spokane; United Paving Co., Inc., Route 4, Box 150, Spokane.

BRIDGE DECK, APPROACHES, Skookumchuck River Bridge No. 1-N/3—Reconstruct timber pile approaches and deck of steel span on 0.061 mi. SSH No. 1-N, Thurston County; a State Project.

Planholders: Pakar Construction Co., Box 447, Chehalis; The Hart Construction Co., 3536 E. 11th, Tacoma; Industrial Engineers and Contractors, Inc., 711 Middle Waterway, Tacoma; Owens Bros., Box 551, Port Angeles; J. A. Troxell, 4006 E. 38th, Seattle; Wayne Construction Co., 3810 Stone Way, Seattle; Webster Lumber Mills, Inc., 525 W. Nickerson, Seattle.

TOLL COLLECTION EQUIPMENT, Port Washington Narrows Bridge—Install two toll collection facilities for Washington Toll Bridge Authority, Kitsap County; a State Project.

Planholders: The Electronic Signal Co., 139-05 Archer Ave., Jamaica, N.Y.; Grant Money-Meters Co., 1117 Douglas Ave., Providence, Rhode Island; Taller & Cooper, Inc., 75 Front, Brooklyn, N.Y.; Shaffer Construction Co., 3409 Everett Ave., Everett.

DM 5-13. Previous report 5-2

★STATE HIGHWAY PROJECTS—
Olympia, Wash.

Fifteen contracts awarded and bids on three projects held for consideration by Washington State Highway Commission, Olympia, for highway construction on which bids opened May 6.

PAVING, Summit Lake Road to Hilltop—Clearing, draining, grading, cement treated base, bituminous surfacing, asphaltic concrete paving, installing illumination, 3.892 mi. SSH No. 9, Thurston County; FAP No. F-010-1(3).

Low bid $774,462 of Bocek Bros., Box 666, Hoquiam, held for consideration.

BRIDGE, Chehalis River at Montesano—Steel truss bridge with reinforced concrete box girder approach and timber trestle approach, 0.247 mi. PSH No. 9, Grays Harbor County; FAP No. F-008-1(1).

AWARD: Harry H. Hawkins, 16274 39th N.E., Seattle, $522,307.

PAVING, Ariel to Rock Creek—Clearing, draining, grading, surfacing, asphaltic concrete paving 6.498 mi. SSH No. 1-S, Cowlitz County; FAS No. S-0260(3).

AWARD: J. N. Conley, 4332 N.E. Royal Court, Portland, $450,734.

PAVING, Jct. PSH No. 1 to Auburn—Surfacing cement treated base, bituminous surfacing, asphaltic concrete paving, installing illumination 4.222 mi. PSH No. 2, King County; FAP No. F-046-1(6).

AWARD: J. D. Shotwell, 3113 S. Pine, Tacoma, $369,315. (Low bid raised to $369,613 by Pieler Construction Co., Port Angeles, and disqualified.)

PAVING, BRIDGE WIDENING, New London North—Clearing, draining, grading, surfacing, cement treated base, bituminous surfacing, asphaltic concrete paving, widening three timber bridges, 3.627 mi. PSH No. 1, Grays Harbor County; FAP No. F-005-1(9).

Low bid $314,582 of Bocek Bros., Hoquiam, held for consideration.

PAVING, ILLUMINATION, N.E. 128nd St. to JCT. PSH No. 2—Draining, grading, surfacing, cement treated base, bituminous surfacing, asphaltic concrete paving, installing illumination, 2.607 mi. SSH No. S-A, King County; FAP No. U-025-1(17).

AWARD: Acme Construction Co., Redmond, $247,941.

PAVING, BRIDGE, S. 56th St. Underpass in Tacoma—Draining, grading, surfacing, asphaltic concrete paving, constructing reinforced concrete slab bridge, 0.667 mi. PSH No. 1, Pierce County; FAP No. I-5-2(7)125.

AWARD: Woodworth & Co., Inc., 1328 E. D St., Tacoma, $232,060.

BRIDGES, North River to Smith Creek—Clearing, draining, grading, constructing two prestressed concrete girder bridges with timber trestle approaches, 0.360 mi. SSH No. 13-A, Pacific County; FAS No. S-0403(6).

AWARD: Kirkman & Strand, Seattle, $267,596.

BRIDGE, Pelican Horn Bridge—Reinforced concrete slab bridge, 0.039 mi. PSH No. 14, Grant County; FAP No. I-90-4(15)172.

AWARD: Snitily Bros. Construction, Box 671, Wenatchee, $52,992.

BRIDGES — Salmon Creek Bridge — Two steel plate girder bridges with reinforced concrete flat slab and box girder approach spans, 0.068 mi. PSH No. 1, Clark County; FAP No. I-5-1(10)6.

AWARD: John E. Alexander, Seattle, $324,982.

SURFACING, Tiflis Road and Grant-Adams County Line Road, Bituminous surfacing 10.045 mi. Grant and Adams county roads; FAS Nos. S-1406(1), S-1048(2).

AWARD: C. J. Painter, Box 51, Parma, $114,546.

PAVING, Eatonville Cutoff and Eatonville-La Grande — Clearing, draining, grading, bituminous surfacing, asphaltic concrete paving 5.238 mi. Pierce County roads; FAS No. S-1319(2) and County Project.

AWARD: Asphalt Paving and Engineering Co., Box 356, Tacoma, $132,561.

SURFACING, Branch Road — Draining, grading, surfacing 3.194 mi. Yakima County road; FAS No. S-0405(4).

AWARD: Maurice Gredvig, Box 301, Yakima, $47,218.

SURFACING, Goldendale - Bickleton — Draining, grading, surfacing 1.364 mi. Klickitat County road; FAS No. S-0936(5).

AWARD: K. C. Dack Construction Co., Box 642, Pendleton, Ore., $40,237.

PAVING, Town of Connell — Draining, grading, surfacing, asphaltic concrete paving 0.491 mi. PSH No. 11, Franklin County; a State Project.

AWARD: Basin Paving Co., Box 1170, Moses Lake, $41,706.

PAVING, Second St. to Clark Road in Yelm — Draining, grading, bituminous surfacing, asphaltic concrete paving 0.282 mi. SSH No. 5-H, Thurston County; a State Project.

AWARD: Milone & Tucci, 2815 S. Lawrence, Tacoma, $21,904.

EQUIPMENT STORAGE BUILDING, Yakima—Construct equipment storage building, boiler building and shop building revisions, Yakima County; a State Project.

AWARD: W. W. Nettleship Building Co., 408 S. 26th, Yakima, $82,924.

RECONSTRUCT BRIDGE, OFFICE BUILDING, Port Washington Narrows Bridge, Manette Toll Plaza—Draining, grading, surfacing, asphaltic concrete paving, reconstructing bridge approach span and constructing office building for Washington Toll Bridge Authority, Kitsap County; a State Project.

Low bid $63,412 of Shaffer Construction Co., Everett, held for consideration.

DE 5-9. Previous report 5-1

●STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids to be opened 10 a.m., May 27, by Washington State Highway Commission, Transportation Bldg., Olympia, for 14 highway construction projects.

PAVING, Davenport to Reardan—Clearing, draining, grading, constructing cement treated base, bituminous surfacing, asphaltic concrete paving, stockpiling on 11.943 mi.

f No. 2, Lincoln County; FAP No. F-
4(4).
uantities: 65,470 c.y. common excavation,
2,040 c.y. foundation excavation;
345 ton crushed surfacing, cover stone,
ral aggregate, ballast; 80 c.y. prime coat
regate; 535 c.y. riprap; 666 ton asphalt
ent; 30,950 ton asphaltic concrete; 10,750
portland cement; 55,860 ton cement
ted base; 8,828' asphaltic concrete curb;
c.y. concrete; 22,940 lb. steel reinforcing
s; 348' concrete pipe; 1,456' metal pipe;
ss' beam guard rail; 133 guide post.

AVING, Schneiders Prairie to Mason
unty Line—Clearing, draining, grading,
structing cement treated base, asphaltic
crete paving, illumination system, 2.514
PSH No. 9, Thurston County; FAP No.
-0(11).
Quantities: 67 acre clearing; 375,690 c.y.
mon excavation; 19,100 c.y. solid rock
avation; 3,860 c.y. unsuitable foundation
avation; 48,310 ton select road borrow;
300 c.y. top soil; 9,450 ton crushed surfac-
F; 1,330 c.y. crushed cover stone, mineral
regate; 228 ton asphalt cement; 14,140 ton
phaltic concrete; 5,490 bbl. portland ce-
ent; 20,200 ton cement treated base; 2,100'
phaltic concrete curb; 880' precast traffic
rb; 77 c.y. concrete; 3,840' concrete pipe;
" metal pipe; 3,932' beam guard rail;
guide posts; 23,780' wire fence; illumina-
n system.

BRIDGES, Bean Creek to Naselle—Clear-
g, draining, grading, constructing two re-
forced concrete slab bridges, 4.710 mi. SSH
o. 13-B, Pacific County; FAP No. F-
3-1(7).
Quantities: 55 acre clearing; 164,000 c.y.
nclassified excavation; 28,400 c.y. common
cavation; 730 c.y. crushed surfacing, bal-
st; 6 c.y. concrete; 5,494' concrete pipe;
" metal pipe; 305' iron pipe; 5 guide
sts; 495 c.y. riprap; 4,300' wire fence; two
perstructures involving about 350 c.y. con-
rete; 81,000 lb. steel reinforcing bars; 182'
eam guard rail; 195' standard bridge rail;
250' concrete piling.

PAVING, Jct. SSH 1-D to Anacortes—Sur-
cing, constructing cement treated base,
ituminous surfacing, asphaltic concrete
aving, installing illumination 2.725 mi. PSH
o. 1, Skagit County; FAS Nos. S-0964(5),
S-0964(6).
Quantities: 12,130 c.y. common excavation,
orrow, 28,000 ton select road borrow; 7,300
on crushed surfacing; 790 c.y. crushed cover
tone, prime coat aggregate; 138 ton asphalt
ement; 9,600 ton asphaltic concrete; 2,920
bl. portland cement; 13,700 ton cement
reated base; 3,830' cement concrete gutter;
30' cement concrete curb; 4,250' asphaltic
oncrete curb, spillway; 2,190' extruded
raffic curb; 234' concrete pipe; 641' metal
ipe; 6,198' beam guard rail; 401 guide posts;
lumination system.

CLEARING, GRUBBING, Lyre River
Bridge vicinity—Clearing, grubbing 0.795 mi.
SH No. 9-A, Clallam County; FAS No. DS-
217(2). Involves 14 acre clearing, 11 acre
rubbing.

GRADING, BRIDGE, Silver Creek-Mossy-
ock Road-Tilton River Bridge—Clearing,
raining, grading, constructing reinforced
oncrete box girder bridge, surfacing 0.284
i. on Lewis County road; FAS No. S-
820(1).
Quantities: 17,000 c.y. common excavation;
,200 c.y. crushed surfacing, ballast; 114'
oncrete pipe; 205 c.y. concrete; 19,400 lb.
teel reinforcing bars; 570' steel bridge rail;
uperstructure involving 536 c.y. concrete
nd 154,650 lb. steel reinforcing bars.

GRADING, BRIDGE, Klaber Road—Clear-
ng, draining, grading, surfacing, construct-
ng reinforced concrete girder bridge 0.294
i. Lewis County road; FAS No. S-0338(5).
Quantities: 11,000 c.y. common borrow;
,700 c.y. select road borrow; 374 c.y. con-
rete; 85,000 lb. steel reinforcing bars; 422'
teel bridge rail.

SURFACING, Whitehall, Mudsprings and
McNiel Canyon Roads—Bituminous surfac-
ng 10.203 mi. Douglas County roads; FAS
Nos. S-1124(1) and S-1120(1); a County
Project.
Quantities: 30,980 c.y. crushed surfacing,
over stone; 427 ton asphalt cement.

SURFACING, Toroda Creek Road—Clear-
ng, draining, grading, surfacing with select
oad borrow 4.801 mi. Okanogan County
oad; FAS No. S-1143(1).
Quantities: 85,490 c.y. unclassified exca-
vation; 15,840 c.y. select road borrow; 1,000', metal pipe; 56' structural plate pipe arch; 200 c.y. riprap; 27,475' wire fence.

CLEARING, SURFACING, GRADING, Coal Creek Road—Clearing, draining, grading, surfacing 1.566 mi. Cowlitz County road; FAS No. S-0710(1).

Quantities: 7 acre clearing; 20,135 c.y. common excavation; 5,690 c.y. solid rock excavation; 19,590 ton crushed surfacing, ballast; 21 c.y. concrete; 725' concrete pipe; 270' metal pipe; 263' beam guard rail.

PLANTMIX SURFACING, Poulsbo to Port Gamble and Suquamish Jct. Vicinity—Grading, bituminous plantmix surfacing 6.236 mi. State Highways 21 and 21-A, Kitsap County; a State Project.

Quantities: 3,480 c.y. common excavation; 6,460 ton crushed surfacing; 45 c.y. prime coat aggregate; 37 ton asphalt cement; 15,735 ton bituminous plantmix.

BITUMINOUS SURFACING, National Ave. to Salzer Creek, et al—Bituminous surfacing 31.1 mi. State Highways, 1, 5, 8, 12, 1-Q and 1-S, Clark, Cowlitz, Lewis, Pacific and Klickitat counties; a State Project.

Quantities: 720 ton asphalt cement; 260 c.y. crushed cover stone; 5,985 c.y. mineral aggregate.

STOCKPILING, Kamilche and Graham Vicinities—Stockpiling about 38,000 ton crushed material SSH Nos. 9-D and 5-N, Mason and Pierce counties; a State Project.

BANK PROTECTION, Dosewallips River Revetment—Bank protection on PSH No. 9, Jefferson County; a State Project. Involving about 5,440 c.y. loose riprap. DM 5-9

★STEEL PIPE— Port Townsend, Wash.

Award to Hydraulic Manufacturing Co., 7500 8th Ave. S., Seattle, $267,301, by City Council, City Hall, Port Townsend, for furnishing and delivering at trench site about 20,000' of 30" electrically welded and coated-and-wrapped steel pipe. Six bids received for May 6 opening. HI BID: American Pipe and Construction Co., Portland, Ore., $285,-616. SP 5-14. Previous report 4-22

●PAVING, CURBS, DRAINS— Puyallup, Wash.

(Estimated cost $300,000)

Bids to be opened 8 p.m., May 19, by C. S. Seabrook, city engineer, City Hall, Puyallup, for about 26,000' of asphaltic concrete paving, concrete curbs and gutters, sidewalks, storm drains, necessary appurtenances on residential streets in area south of Pioneer W., all in LID 58-1. Plans with above office. DC 5-13

●EARTH DIKE, FISH RACK, TRAP— Quilcene, Wash.

Bids to be opened 10 a.m., June 3, by U. S. Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, The Interior Bldg., 1001 N.E. Lloyd Blvd., Box 3737, Portland, for constructing earth dike, wood-picket fish rack, wood-lined trap, brail, lift mechanism and all appurtenances on the Walcott Slough, about 13 mi. south of Quilcene on Highway 101. Specifications with above office. SP 5-14

▲WATER SYSTEM INTAKE, CHLORINATOR—Rainbow Falls State Park, Wash.

Bids received by State Parks and Recreation Commission, 100 Dexter Ave., Seattle, for constructing water system intake and chlorinator at Rainbow Falls State Park, Lewis County.

Five bids received May 13. LOW BID: Harold F. Lowe, North Bend, $1,427. HI: Willar Construction Co., 9709 Greenwood Ave., Seattle, $5,532.

LB 5-14. Previous report 5-8

●LIGHTING, POWER SYSTEM— Renton, Wash.

Bids will be opened 9:30 a.m., May 19, by King County Commissioners, purchasing agent, 402 County City Bldg., Seattle, for installing complete lighting and power system at the Maple Valley Shop, five mi. southeast of Renton. Plans with King County Purchasing Department, 606 County City Bldg., Seattle. Certified check, bid bond 5%.

▲ROAD SEAL TREATMENT— Richland, Wash.

Six bids received May 8 by Atomic Energy Commission, Box 550, Richland, for application of a non-skid single seal treatment on 22 mi. of four-lane and one mi. of two-lane plant roads at Hanford Works, Richland. LOW BIDS: Standard Asphalt Paving Co., 119 N. Post, Spokane, $33,457; S & S Surfacing Co., 8328 15th N.W., Seattle, $35,023. HI BID: Acme Pavers, Inc., 722 13th, Seattle, $45,097. AEC estimate $42,290.

LB 5-9. Previous report 4-29

●PAVING, SANITARY SEWERS— Seattle, Wash.

Bids will be opened 2 p.m., May 21, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing, installing 13,580' of 6" and 8" pipe sewer on Fremont Ave., et al, Ord. No. 87026, LID 6174; and for cement concrete paving on West Armour St., et al, Ord. 87067, LID 6180. Separate contracts for sewer and paving.

Plans and specifications available on and after May 12 in 404 County City Bldg., Seattle. $10 deposit each contract.

Quantities: Pipe sewer may be clay or concrete at contractors, option under both contracts. FREMONT: 9,580' of 8" pipe sewer; 4,000' of 6" side sewer connections; 185 of 6" on 8" wyes; 36 manholes; road restoration work. WEST ARMOUR ST.: 14,000 c.y. earth work sub-grading; 33,400' integral curb, type A; 52,700 sq. yd. 6" cement concrete paving; 2,500 sq. yd. sidewalk, 300 sq. yd. alley crossing, 2,125 sq. yd. private driveway, all of cement concrete; 300' of 6" and 500' of 8" pipe sewer; 150' of 6" side sewer connections; 1,250' of 8", 240' of 4" cast iron water main; seven manholes; catch basins, miscellaneous drainage items, hydrants, gate valves. PD 5-9

●RECONSTRUCT BRIDGES—Seattle, Wash.

Bids will be opened 9:30 a.m., May 26, by King County Commissioners, 402 County City Bldg., Seattle, for reconstructing two King County bridges in King County Road District No. 2, including Coal Creek Bridge No. 3035A (CRP 120-57 S), one mi. southeasterly of Cumberland, in Section 33, T. 21 N.R. 7 E.W.M., and Dorre Don Bridge No. 3097 (CRP 57-58 S), 0.7 mi. southeasterly of Maple Valley in Section 15, T. 22 N.R. 6 E.W.M. Plans and specifications with county engineers, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check, bid bond, 5%. One contract for both bridges.

Quantities—COAL CREEK: furnish 700' treated timber piling; drive 28 piles; 4.6 MBM treated timber, 3.2 MBM untreated timber in place; 82' handrail in place; 300 c.y. common embankment in place; 8 c.y. small loose riprap in place. DORRE DON: three precast concrete roadway units, two precast concrete curb units, 45' bridge railing, 4 c.y. crushed stone surfacing, three ton class "B" asphaltic concrete. All in place. PD 5-9

SEWERS— Seattle, Wash.

(Estimated cost $3,800,000)

Bids will be called in June, with separate bid opening dates for each of six contracts involved, on construction of 35 mi. of sewers, for Lake City Sewer District 12721 30th Ave. N.E., Seattle. Working drawings are nearing conmpletion by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. PD 5-3. Previous report 3-29

▲NAVIGATIONAL AIDS— Seattle, Wash.

Three bids received by 13th Coast Guard District, 618 2nd Ave., Seattle, for constructing five aids to navigation structures Columbia River between St. Helens, Ore., and Vancouver, Wash.: F.S-1747. Bids opened May 12. BIDS: Hanly Salvage Co., 3912 Pacific, Longview, $24,997; General Construction Co., 4850 N.W. Front, Portland, $28,925; Palmberg Construction Co., Box 991, Astoria, Ore., $39,000. SP 5-13. Previous report 5-1

●FURNISH CRUSHED ROCK— Seattle, Wash.

Bids will be opened 9:30 a.m., May 26, by King County Commissioners, 402 County City Bldg., Seattle, for furnishing (1) 25,000 c.y. of 2" minus, and (2) 20,000 c.y. of ¾" minus crushed ledge rock base course to be stockpiled at Road District No. 3 main-

tenance shop site, Ballinger Road (S.S.H. 2-B) and 25th N.E. Alternate bids may be given for same contract, fob county trucks at delivery points on Lake Union, or vicinity of Kenmore on Lake Washington (to be designated as 1-A for 25,000 c.y., and 2-A for 20,000 c.y.). Plans and specifications with county engineers, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check, bid bond, 5%. PD 5-10

▲BITUMINOUS SURFACING— Seattle, Wash.

Two bids on Cook Road, and four bids on Enumclaw-Selleck Road, were received by King County Commissioners, 402 County City Bldg., Seattle, for resurfacing with bituminous roadmix five mi. of Enumclaw-Selleck Road (from Veazie to Palmer), and for resurfacing with bituminous plantmix one mi. Cook Road (156th N.E.) from PSH No. 2 to N.E. 124th St., King County. Bids opened May 12. COOK ROAD—BIDS: Acme Construction Co., E. Lake Sammamish, Redmond, $11,077; Washington Asphalt Co., 309 W. 39th, $12,427. ENUMCLAW-SELLECK ROAD—LOW BIDS: Doolittle Construction Co., 510 Adams, $28,850; S & S Surfacing Co., 5717 20th N.W., $32,085; HI: Pacific Sand & Gravel Co., Box 628, Centralia, $38,905. Of Seattle except as noted.

PD 5-13. Previous report 5-8

■PARKING LOT— Seattle, Wash.

Planholders announced for improvement and enlargement of parking facilities in area north of Hec Edmundson pavilion, Seattle. Bids will be open 2 p.m., May 20, by Board of Regents, University of Washington. Plans and specifications with Worthington & Skilling, professional engineers. Mechanical engineers are Bouillon, Griffith & Christofferson, 1411 Fourth Avenue Bldg., Seattle.

Planholders: Cawdrey & Vemo, 3601 Fremont; General Construction Co., 3840 Iowa; Lloyd W. Johnson, 1266 Mercer; Butler Construction Co., 3419 Union Bay Place; Washington Asphalt, 309 W. 39th; MacRae Construction Co., 5900 2nd Ave. S.; Dale Madden, 3010 E. 163rd; Scheumann & Johnson, Lloyd Bldg.; Associated Sand & Gravel, 6300 Glenwood, Everett; Wayne Construction Co., 3810 Stone Way; Baugh Construction Co., 922 Poplar Place; Sprague, Inc., Box 458, Lynnwood; Northwest Asphalt Co., 7343 E. Marginal Way; Lake City Gravel & Materials, 10720 Bothell Way. Of Seattle unless noted.

LB 5-13. Previous report 4-23

★LANDING SYSTEM, TACAN, POWER SERVICE— Seattle, Wash.

Award to Agutter Electric, 5500 14th N.W., Seattle, $45,395, by 13th Naval District, U.S. Naval Station, Seattle, for optical landing system, Tacan facility and power service for Bldg. 30, U.S. Naval Station, Seattle; Spec. 12325/58. SP 5-14. Previous report 4-29

★STEAM DISTRIBUTION, HEATING SYSTEMS— Seattle, Wash.

Award to Ashwell-Twist Co., 967 Thomas, Seattle, $42,201, by 13th Naval District, U.S. Naval Station, Seattle, for rehabilitating steam distribution and heating systems at U.S. Naval Station, Seattle; Spec. 12350/58.

SP 5-14. Previous report 4-30

★CLARIFIER COVERS— Seattle, Wash.

Award to Arrow Iron and Machine Works, 1327 Weller, Seattle, $37,800, by Southwest Suburban Sewer District, 865 S.W. 136th St., Seattle, for constructing three steel frame covers for clarifiers and aeration units at sewage treatment plant, 12550 Shorewood Drive, Seattle. Consulting engineers: Hill & Ingman, 3104 Western Ave., Seattle.

SP 5-14. Previous report 4-22

●PUMP HOUSE— Seattle, Wash.

Bids will be opened 8:15 p.m., May 23, by King County Water District No. 49, Henry Gustafson, secretary, 927 S.W. 152nd St., Seattle, for construction of a 8'x15' concrete wall, wood roof pump house, at S.W. 156th and 3rd Place S.W., Seattle. Plans with District office or Allen Hitchings, consulting engineer, 308 Columbia St., Seattle. $1 charge. PD 5-14

■SUBSTATION— South Bend, Wash.

Planholders announced for construction of the 12-mva Willapa River substation of Pacific County Road about ½ mi. south of the intersection of this road and U.S. Highway No. 101, near the east city limits of South Bend, Pacific County, Wash.; Inv. No. 8729. Bids will be opened 2 p.m., May 21, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland.

Planholders: O. Brandon, 6401 Lincoln, Vancouver; John M. King Co., 1601 Taylor Way, Tacoma; Witzig Construction Co., Box 292, Corvallis, Ore.; Olson Electric Co., Box 830, Vancouver; George S. Smith, 24216 Bothell Way, Bothell; H. B. Nesheim, 6714 36th Ave. S.W., Seattle.

WB 5-13. Previous report 4-26

AIRPORT LIGHTING— Spokane, Wash.

Approximate bid opening date of June 1 has been set by Civil Aeronautics Administration, 5651 W. Manchester, Los Angeles, Calif., for installing condenser discharge sequenced flashing lights on approach lighting, Washington Municipal Airport, Spokane. Proposal 4-58-1027. DM 5-8

▲WATER MAINS— Tacoma, Wash.

Six bids received May 5 by city clerk, City Hall, Tacoma, for installing 6" and 8" cast iron water mains in LID No. 5290. LOW: Eltrich Bros., Inc., 1002 S. Monroe, $51,196; Paine & Gallucci, Inc., 1521 S. Grant, $52,087. HI: Milone & Tucci, 3215 S. M St., $60,836. All Tacoma. DM 5-9. Previous report 4-30

●BITUMINOUS SURFACING— Tumwater, Wash.

Bids to be opened 10 a.m., May 29 by J. C. Claypool, district engineer of Washington State Highway Commission, at Tumwater office, for grading, draining, bituminous surfacing 0.189 mi. SSH No. 5-J, Pierce County, Harts Lake Road connection; a State Project. Plans with Tumwater office. $2 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 2,610 c.y. common excavation; 1,860 c.y. select road borrow; 590 c.y. crushed stone surfacing top course; 9 ton asphalt cement; 80 c.y. crushed cover stone; 45' of 18" standard reinforced concrete pipe.

DM 5-10

★STREET SURFACING— Vancouver, Wash.

Seven bids received by Vancouver Housing Authority, 809 MacArthur Blvd., Vancouver, for construction of 94,700 sq. yd. of completed street surface in Adresen Highlands—2, and Lieser Crest—9 and 10, McLoughlin Heights, Vancouver. AWARD: Parker & Fuhrman, 11524 S.E. Foster Road, Portland, $50,378. 2ND LOW: Clark County Road & Driveway, 1314 W. 16th, Vancouver, $53,579. HI BID: Doolittle Construction Co., 510 Adams St., Seattle, $71,500. Bids opened May 7. WB 5-9. Previous report 4-30

★CURBS, LIGHTING FOUNDATIONS— Vancouver, Wash.

Award to W. P. Snider, 4204 N.E. 72nd, Vancouver, $25,551, by Vancouver Housing Authority, Fred Seneschal, executive director, 809 MacArthur Blvd., Vancouver, for construction of 20,600' of curbs, 33 catch basins and piping, and 28 concrete foundations for street lighting fixtures in Northwood, McLoughlin Heights, Vancouver. Bids opened May 7. OTHER BIDS: Fred Stubbert, 1056 "J" St., Springfield, Ore., $28,175; Raymond Concrete Co., 3414 Columbia St., Vancouver, $28,727.

WB 5-9. Previous report 4-30

IDAHO

▲IRRIGATION PUMPS— Hamer, Idaho

No bids received May 8, by Fish & Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, for furnishing and installing four irrigation pumps at the Camas National Wildlife Refuge, Hamer, Idaho; Inv. SFW-103.

WB 5-10. Previous report 5-2

●DEEP WELL PUMP— Idaho Falls, Idaho

Bids to be opened 2 p.m., M.S.T., May 21 by Atomic Energy Commission, Box 1251, Idaho Falls for removing existing 60 hp submersible pumping including 650' of 8" column pipe; furnish, install new submersible pump with 600 gpm at 600 head, lines, piping, et al at National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-958. Bid guarantee 10%. Plans with above office. DM 5-10

ROAD CONSTRUCTION— Lewiston, Idaho

Construction will start about June on a 1½ mi. long road extending along the north side of the canyon from the present route from 21st St. in Lewiston to Thain Road in Lewiston Orchards. Survey work is nearly completed, according to Nez Perce County Commissioners, Courthouse, Lewiston.

DR 5-6

■APRON, TAXIWAYS, UTILITIES— Mountain Home AFB, Idaho

Planholders announced for airfield alert apron, access taxiways, drainage, water and electrical support items at Mountain Home AFB; ENG-45-164-58-51. Bids will be open 2 p.m., May 20 by Corps of Engineers, Walla Walla office, Bldg., 602, City County Airport, Walla Walla.

Planholders: Gordon H. Ball, Inc., 30 Camille Ave., Danville, Calif.; Nottingham Construction Co., P. O. Box 1545, Boise; J. E. Nonenmacher Construction Co., 5818 Cyzen Road, Boise. LB 5-10. Previous report 4-9

ACCESS ROAD EXTENSION— Orofino, Idaho

The U.S. Forest Service has allocated $66,000 for construction of an additional six mi. to the timber access road now under construction between Bungalow and Canyon ranger stations in Clearwater National Forest, according to Charles Wingard, forest engineer, Orofino.

DR 5-2. Previous report 4-21

SEWAGE PLANT, SEWERS— Payette, Idaho

(Estimated cost $485,000)

Bids will be called in July or August by City Council, City Hall, Payette, for construction of a sewage disposal plant and sewage system. Specifications are being prepared by Wendell H. Smith, consulting engineer, Route 2, Preston.

SP 5-8. Previous report 1-2

●GRADING, BITUMINOUS SURFACING— Pocatello, Idaho

Bids to be opened 1:30 p.m., May 21, by Bureau of Indian Affairs, Portland Area Office, Branch of Roads, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland, Ore., for grading and bituminous surfacing of 4.985 mi. Michaud Roads, Fort Hall Indian Reservation, nine mi. west of Pocatello; Proj. FRH-700(2). Specifications available from room 878, above office, and from Fort Hall Indian Agency, Fort Hall, Idaho.

Quantities: 23,800 c.y. unclassified excavation; 32,500 c.y. borrow excavation; 11,200 ton gravel base; 10,240 ton crushed aggregate base; 20,850 asphalt, grade MC-2; 20,850 asphalt, grade MC-4; 41.90 c.y. concrete; 1,148' galvanized corrugated metal pipe.

SP

MONTANA

●CAST IRON PIPE, SEWER REPAIR— Billings, Mont.

Bids to be opened 5 p.m., May 27, by City Council, City Hall, Billings, for purchase 1,440' of 8" cast iron pipe with enamel lining, 18 corey type hydrants, and valves and fittings, and for repair of 1,969' of sanitary sewer on Colton Blvd., Billings. Specifications with city engineer, City Hall. Separate bids on pipe and sewer work. Certified check 5% (if over $10,000 bid) or $500 (if under $10,000) on pipe; certified check or bid bond 5% on sewer pipe repair.

●SIDEWALKS, CURBS, GUTTERS— Billings, Mont.

Bids to be opened 10:30 a.m., May 27, by Yellowstone County Commissioners, Co

...t, Billings, for installation of sidewalks, ...blination curbs and gutters and driveway ...proaches on north side and part of south ...e of Lewis Ave. from 12th St. W. to 13th ...W., RSID No. 404. Specifications with ...e Engineers and Land Planners, Inc., 706 ...tral Ave., Billings. Certified check 10%. EE 5-14

...URBS, GUTTERS, ASPHALTIC ...AVEMENT— Billings, Mont.

...ids to be opened 11 a.m., June 5, by ...llowstone County Commissioners, Court-...se, Billings, for installing concrete curbs ...d gutters on both sides of Louise Lane ...m Polytechnic Drive to north line of ...rder Subdivision, and installing asphaltic ...vement in same area of Louise Lane, RSID ... 205. Plans may be examined in office ... Lillis Engineering Co., 515 N. 27th St., ...illings. Certified check 10%. EE 5-14

WATER STORAGE— Helena, Mont.

Low bids announced by Water Conserva-...on Board, Sam Mitchell Bldg., Helena, on ...id opening May 7 for Cataract Creek water ...torage project in Madison County and for ...asking Dead Man's Basin Dam in Wheat-...and County. CATARACT CREEK: F. L. Flynn C., 520 D Ave., Billings, $142,811. DEAD MAN BASIN: Schye & Sullivan, White Sulphur Springs, $74,190.

LS 5-9. Previous report 5-1

●DRILL, CASE WELL— Kalispell, Mont.

Bids to be opened 10 a.m., P.S.T., May 26, by U.S. Fish and Wildlife Service, 1001 N.E. Lloyd Blvd., Portland (Box 3737) for drilling, casing fresh water supply well at Cres-ton Fish Cultural Station, Kalispell. Plans with Leo L. Laythe, regional director, Port-land address. DM 5-13

SEWAGE PLANT, STORM SEWERS, STREETS— Kalispell, Mont.

The Kalispell City Council has decided to apply to the Federal Housing and Home Finance Agency for funds to finance plan-ning of four municipal projects, 1—storm sewer system, 2—sewage treatment plant expansion, 3—reconstruction of street sur-facing on Woodland Ave., and 4—covers for two city reservoirs. No attempt will be made to start on all projects immediately, however the requested loand would permit advance planning and writing of specifi-cations. Preliminary planning of the sewage plant expansion and storm sewer project has been completed by Morrison-Maierle, Inc., consulting engineers, 910 Helena Ave., Hel-ena. RB 5-7. Previous report 4-12

▲PUMPING UNITS— Lewistown, Mont.

Pacific Pumping Co., 526 N.W. Broadway, Portland, Ore., submitted the only bid. $2,784 (Item 1); $3,256 (Item 2), to Fish & Wildlife Service, Interior Bldg., Box 3737, Portland, for one 500 gpm. centrifugal water pumping unit, and one 1,000 gpm. unit, fob Lewistown, Mont.; SFW1-102. Bids opened May 7.

WB 5-9. Previous report 5-2

SEWAGE TREATMENT FACILITIES— Warm Springs, Mont.

J. G. Link & Co., architects and engineers, Electric Bldg., Billings, have been retained by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Hel-ena, to prepare plans for lagoon type sewage treatment facilities at the state hospital in Warm Springs. LS 5-6

ALASKA

URBAN RENEWAL— Anchorage, Alaska

Housing and Home Finance Agency has approved $48,000 in planning funds for West-chester Urban Renewal Project, Anchorage, according to Arnold A. Wilken, territorial representative. In addition, $548,500 has been set aside in federal funds. Project involves redevelopment, planning in area bounded by 16th, H St., Chester Creek and high school. Alaska Housing Authority will handle clearing and redeveloping. This is city's second urban renewal project. AL 5-8

■MUNICIPAL DOCK— Anchorage, Alaska
(Estimated cost $6,300,000)

Planholders announced on constructing 600' municipal dock and port facility con-sisting of concrete deck on steel piling, rail-road trestle and highway approaches, dredg-ing, and installing two 40-ton and two 5-ton level-luffing cranes on the east bank of Knik Arm about one mi. north of Anchorage and 500' north of existing ocean dock. Bids will be opened 2 p.m., May 29, by City Council, City Hall, Anchorage. Plans with C. A. Hostetler, city purchasing agent, 1st Ave. and Post Road (Box 400), Anchorage, and from Tippetts-Abbett-McCarthy & Strat-ton, consulting engineers, 62 W. 47th, New York. $50 deposit.

Planholders: Ben C. Gerwick, Inc., 417 Market, San Francisco, Calif.; McLaughlin, Inc., Box 1824, Great Falls, Mont.; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle, Wash.; Manson-Os-berg Co., 1132 N. 128th, Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; Raber-Kief, Inc., and Beck Constructors, 5939 4th S., Seattle; J. C. Boespflug Con-struction Co., 1912 4th S., Seattle; Puget Sound Bridge and Dredging Co., 2929 16th S.W., Seattle; Pacific Car and Foundry, 120 W. Hudson, Seattle; Morrison-Knudsen Co., Inc., Box 320, Anchorage; Raymond Inter-national Co., Ltd., 1104 Hornby, Vancouver, B.C.; Sweta Construction Co., Box 297, Mt. View, Alaska; Macco Corp., 11409 S. Para-mount Blvd., Paramount, Calif.; M. B. Con-tracting Co., Box 2059, Anchorage; Patti-McDonald Construction Co., Pouch 6, Anch-orage; John C. Miller, Box 1654, Anchorage; Pacific Bridge Co., 2182 W. 12th, Vancouver, B.C.; Anchorage Sand and Gravel Co., Box 1994, Anchorage.

AL 5-14. Previous report 5-2

●WELL HOUSE— Delta Junction, Alaska

Bids to be opened 1 p.m., June 9, in office of the Contracting Officer, U.S. Army Al-aska Communication System, 421 Federal Office Bldg., Seattle, Wash., for constructing well house for the U.S. Army Alaska Com-munication System, Delta Junction, Alaska; SC-45-041-58-16. Specifications with above office. SP 5-14

★STEEL TOWERS, TRANSMISSION LINES— Juneau, Alaska

Award to Pacific Testing Laboratories, 3220 17th W., Seattle, $7,150, by U.S. Army Alaska Communication System, 421 Federal Office Bldg., Seattle, for installing Govern-ment-furnished vertical steel towers, tower lighting, coaxial transmission lines and ground systems at CAA Communication Transmitter Site, Juneau; SC-45-041-58-13.

SP 5-6. Previous report 4-15

▲GRADING— Juneau, Alaska

Bids received May 13 by Bureau of Public Roads, 319 Federal Bldg., Juneau, for grad-ing Douglas Highway, AFHP 31-C1. LOW BIDS: United Builders, Box 524, Anchorage, $164,858; Berg Construction Co., Box 276, Juneau, $198,626; Kiel & Peterman, Box 770, Juneau, $243,713.

JU 5-14. Previous report 5-8

★ANTENNA REPAIR— Kodiak, Alaska

Award to Chisum Electric Co., Box 230, Kenai, $16,999, by 17th Naval District, U.S. Naval Station, Kodiak, for repair to rhombic antennas, Holiday Beach, U.S. Naval Station, Kodiak; Spec. 2456/58. Two bids received April 25. OTHER BID: Western Equipment and Supply Co., 428 White-Henry-Stuart Bldg., Seattle, $19,336.

SP 5-6. Previous report 4-9

★PETROLEUM FACILITY—Kodiak, Alaska

Award to POL Contractors, Box 1039, An-chorage, $1,266,571 (item 1), by 17th Naval District, District Public Works Office, Bldg. S-12, U. S. Naval Station, Kodiak, for re-placement of petroleum facility, 2nd In-crement, Kodiak; Spec. No. 2440/57.

LB 5-10. Previous report 5-9

●PUMPING STATION REPAIRS— Ladd AFB, Alaska

Bids will be opened 2 p.m., May 27, by U.S. Air Force, Procurement Office, Ladd AFB, for repairing sanitary sewer pumping stations at the base; Inv. No. 58-103. Speci-fications with above office. SP 5-2

●INSTALL PRESSURE FILTERS— Ladd AFB, Alaska

Bids will be opened 2 p.m., A.S.T., May 28, in the base procurement office, Ladd AFB, Fairbanks, for furnishing and installing pressure filters in the South Power Plant, Building 3595; IFB 65-500-58-126. Bid guar-anty 20%. RG 5-14

●PAVING— Ladd AFB, Alaska

Bids to be opened 2 p.m., May 21, by U. S. Air Force, Procurement Office, Ladd AFB, for installing additional paving at road in-tersections on the base; Inv. No. 65-500-58-97. Plans with above office. SP 5-14

▲TRANSMISSION, DISTRIBUTION SYS-TEMS— McKinley National Park, Alaska

Four bids received by Duane D. Jacobs, superintendent, Mt. McKinley National Park, Alaska, for constructing electric transmis-sion, distribution and communication sys-tems in and between Hotel and Headquart-ers Area, furnishing and installing two new 150-kw diesel engine generators in the Hotel Area powerplant and removing existing dis-tribution and telephone systems upon com-pletion of new work at Mt. McKinley Na-tional Park. TWO LOW: City Electric of Anchorage, Box 3698, Eastchester Branch, Anchorage, $143,037; Northern Electric Co., Fairbanks, $154,209. HI: Langlais & Son, San Francisco, Calif., $178,473.

SP 5-13. Previous report 4-9

★INTER-BATTERY COMMUNICATIONS— Nike Sites, Alaska

Awards to Philco Corp., 4700 Wissahickon Ave., Philadelphia, Pa., $409,824 (Sched. A), $488,226 (Sched. B), $151,950 (Sched. C), by Corps of Engineers, Alaska District, D-E Bldg., Anchorage, for installing inter-battery communications at Alaska Army Nike sites including Fort Richardson Area and Elelson-Ladd Area; Inv. No. 58-34.

SP 5-14. Previous report 5-8

NORTHERN CALIFORNIA

●STORAGE BASE DEMINERALIZED WATER— Beale AFB, Calif.

Bids will be opened 2 p.m. (DST), May 29, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for Stor-age Base Demineralized Water, Beale Air Force Base, Yuba County, Calif.; ENG-04-167-58-51. Work includes storage base de-mineralized water building; water treatment facilities within building; exterior water, sanitary and industrial waste sewer lines and electrical service; paving and storm drainage; demineralized water storage tank. Specs with above address. Bid bond 20%. Completion time 210 days. RM 5-17

★DRILLING TEST HOLES— Bullards Bar Dam, Calif.

Award to Processed Bit and Tool Co., Inc., 66 Ritch St., San Francisco, $16,530, by State Department of Water Resources, 1730 24th St., Sacramento, for drilling test holes, New Bullards Bar Dam site, North Yuba River, Yuba County. Bids opened May 7. PB 5-17

★SWIMMING POOL— Ceres, Calif.

Award to Jesse E. Wagoner, Reno, Nev., Modesto, $39,496, by City Council, 3rd and North, Ceres, for constructing the Ceres Community Swimming Pool. Completion time: 90 days. RC 5-17

★ELECTROLIERS— El Cerrito, Calif.

Award to Ets-Hokin & Galvan, 551 Mission St., San Francisco, $56,304, by City Council, City Hall, El Cerrito, for installing modern electroliers on San Pablo Ave. from south city limits to Waldo Ave. RC 5-17

●SEWAGE PLANT IMPROVEMENTS— Hayward, Calif.

Bids will be opened 8 p.m., May 27, by City Council, City Hall, Hayward, for installing

159' of 36" corrugated metal pipe, asbestos bonded bypass and appurtenances at the Municipal Sewage Treatment Plant on Clawiter Rd., Hayward, Alameda County. Proj. No. 1115. Plans with Edward E. Phillips, Director of Public Works, City Hall Annex. $25 deposit. Certified, cashier's check or bid bond 10%. RM 5-17

● **GENERATORS—** **Sacramento, Calif.**

Bids will be opened 3 p.m. (DST), May 29, by Sacramento Municipal Utility District, Purchasing Dept., 1708 59th St., Sacramento, for furnishing and delivering two 68,000 kva, vertical, 1 shaft, waterwheel-driven, alternating current, syrchronous type generators and excitation switchgear with appurtenant equipment and controls for Jaybird Powerhouse, Upper American River Project, El Dorado County, Calif. Inv. 2102. Specs with above address. RC 5-17

● **STATE HIGHWAY PROJECTS—**
Sacramento, Calif.

Bids will be opened 2 p.m., June 4, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer, above address.

X-SJ-5,75-STKN—Grade lanes for channelization; plantmix surface on untreated base; prepare, plant roadside areas; traffic signal system; between Wilson Way and 0.8 mi. east, Stockton, San Joaquin County.

IV-ALA-69-EMV,BER — Prepare, plant roadside areas, 1.8 mi., between Ashby Ave. and Virginia St., Emeryville and Berkeley, Alameda County.

X-MER-122-GUS,A — Grading, plantmix surfacing, about 3.0 mi., portions on untreated base and portions over existing surfacing, between Rt. 41, Gustine, and 5 mi. east, Merced County.

V-MON-56-D,E—Clean, paint two bridges across Burns Creek and Castro Canyon, about 46 and 35 mi. south of Monterey, Monterey County.

II-SIS-3,46-B,C,D—Seal coating about 19.5 mi. between Shasta River and Oberlin Rd., and between 5.8 mi. east of Scott River and Walker Bridge, Siskiyou County.

II-SHA,TRI-20,29,35-VAR — Applying median fine seal coat to traveled way, about 24.5 mi., at various locations, Shasta and Trinity counties.

X-SOL-7,53,101-VAR — Plantmix surfacing over existing surfacing, about 10.1 mi., at various locations, Solano County.

X-MER,STA,SJ-32,122,QWE,R,110,110,41,66-VAR—Plantmix surfacing over existing surfacing, about 36.2 mi., various locations, Merced, Stanislaus and San Joaquin counties.

I-HUM-1-FTA,G—Grading, plantmix surfacing on cement treated base and untreated base, a four-lane divided highway with frontage roads, ramps and connections, about 3.2 mi., between Fortuna and 0.8 mi. north of Fernbridge, Humboldt County.

II-SIS-82-C—Grading, plantmix surfacing on untreated base, about 2.9 mi., between Kidder Creek and 1.8 mi. south of Ft. Jones, Siskiyou County.

II-TEH-1079—Constructing two bridges across overflow channels, northwest of Los Molinos, Tehama-Vina Rd., Tehama County. PB 5-17

● **PLANTMIX SURFACING—**
San Mateo, Calif.

Bids will be opened 10 a.m., June 2, by City Council, City Hall, San Mateo for reconstructing major city streets, Proj. 62, Unit 1, with 2" hot dense graded plantmix (portions 7 streets), and resurfacing streets, 1958-1959 Unit 1, with 1½" hot dense graded plantmix (portions 49 streets). Specs with Engineering Dept., Room 30, City Hall. Certified check or bid bond 10%. BY 5-17

● **GAP FILLER FACILITIES—**
Whitmore and Janesville, Calif.

Bid opening extended from May 22 to 2 p.m. (DST), June 20, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for constructing Unmanned Gap Filler Facilities near Whitmore, Shasta County, and near Janesville, Lassen County, Calif.; ENG-04-167-58-44.

RM 5-17. Previous report 5-1

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., JUNE 3
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, June 3, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 7 inclusive.

The improvements for which bids will be received follow:

1. Grading. Constructing Two Reinforced Concrete Box Girder Bridges and a Precast Prestressed Concrete Bridge on 0.087 mile of Primary State Highway No. 2 in Kittitas County. YAKIMA RIVER BRIDGE AND EASTON UNDERCROSSING, FAP No. I-90-2(13)68, involving about 38,050 cubic yards of Common Borrow, 9,480 tons of Riprap, 1,566 cubic yards of Concrete, 1,735 linear feet of Standard Bridge Railing, 168,000 pounds of Steel Reinforcing Bars, 1,460 linear feet of Prestressed Concrete Girders, a lump sum bid for Superstructure (about 1,447 cubic yards of Concrete and 436,900 pounds of Steel Reinforcing Bars) and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Paving with Asphaltic Concrete and Reconstructing Shoulders on 4.75 miles of Primary State Highway No. 3 in Walla Walla County, LOWDEN TO TOUCHET, FAP No. DF-018-4(8), involving about 16 ton of Asphalt Cement, 9,820 tons of Asphaltic Concrete, 3,500 tons of Crushed Surfacing and other items.
3. Grading, Draining and Surfacing on 2.551 miles of a Whitman County Road, HUME ROAD, FAS No. S-0662(2), involving about 94,710 cubic yards of Common Excavation, 955 cubic yards of Solid Rock Excavation, 65,090 tons of Crushed Surfacing and Crushed Cover Stone, 1,122 linear feet of Metal Pipe, 128 linear feet of Metal Pipe-Arch and other items.
4. Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment on 4.782 miles of a Lincoln County Road, CRESTON-MILES ROAD, FAS No. S-0952(4), involving about 40,500 cubic yards of Common Excavation and Borrow, 24,870 cubic yards of Solid Rock Excavation, 53,830 tons of Crushed Surfacing and Crushed Cover Stone, 1,560 cubic yards of Mineral Aggregate, 12 linear feet of Concrete Pipe, 632 linear feet of Metal Pipe, 229 tons of Asphalt Cement and other items.
5. Clearing, Draining and Grading on 0.634 mile of a Kitsap County Road, EAGLEDALE-CREOSOTE ROAD, FAS No. S-1266(1), involving about 75,720 cubic yards of Unclassified Excavation, 1,523 linear feet of Concrete Pipe, 150 linear feet of Metal Pipe, 810 linear feet of Beam Guard Rail and other items.
6. Clearing, Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Paving with Bituminous Plant Mix on 1.580 miles of Benton County Roads, WASHINGTON STREET-OLYMPIA STREET-33RD PLACE, FAS No. S-0655(1) and County Project, involving about 10,550 cubic yards of Common Excavation, 17,485 tons of Crushed Surfacing, Crushed Cover Stone and Ballast, 450 cubic yards of Mineral Aggregate, 3[illegible] tons of Asphalt Cement, 400 tons of Bituminous Plant Mix, 674 linear feet of Precast Traffic Curb, 1,262 linear feet of Concrete Pipe, 102 linear feet of Metal Pipe and other items.
7. Clearing, Draining, Grading, Constructing Bituminous Surface Treatment and Paving with Asphaltic Concrete on 0.9[illegible] mile of Redmond City Streets in King County, 166TH AVENUE AND N.E. 10[illegible] STREET IN REDMOND, No. A-AD-2[illegible], involving about 7,060 cubic yards of Common Excavation, 4,670 cubic yards of Selected Roadway Borrow, Crushed Cover Stone and Prime Coat Aggregate, 2[illegible] tons of Crushed Surfacing, 31 tons of Asphalt Cement, 1,650 tons of Asphaltic Concrete, 1,560 linear feet of Asphaltic Concrete Ditch, 3 cubic yards of Concrete, 60 pounds of Steel Reinforcing Bars, 539 linear feet of Concrete Pipe and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways
6149—5-17, 24

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., MAY 29
Salem, Oregon
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received and opened by the State Highway Commission in Room 418, State Highway Building in Salem, Oregon, at 10:0[illegible] a.m., on Thursday, May 29, 1958. No award of contracts will be made on May 29 but all bids will be referred to the Highway Commission for award at its next meeting in Portland on June 19, 1958.

BIDS TO BE OPENED AT 10:00 A.M. ON THURSDAY, MAY 29, 1958

COLUMBIA COUNTY: Nehalem River Bridge (M.P. 58.16) Section of the Nehalem Highway, near Vernonia. FAS Project DS-21,3(20). 182-foot, reinf. conc. struct ove

Nehalem River, 0.18 mi. highway roadbed and stone base. Requires approx. 1,300 cu. yds. general excavation; 220 lin. ft. metal guardrail; 2,200 cu. yds. rock base; 280 lin. ft. steel piling; drive 8 piles, 395 cu. yds. Class "A" concrete; 90,000 lbs. metal reinf.; 30 lin. feet. metal drain pipe.

COOS COUNTY: Isthmus Slough Bridge on Coos River Highway. State project. Repair pier fenders. Requires approx. 4,500 lin. ft. treated timber piling; drive 64 piles; 5,000 FBM treated lumber.

CURRY COUNTY: Hooskanaden Creek-Thomas Creek Section of the Oregon Coast Highway, about 8 mi. north of Brookings. Federal Aid Project No. BF-124(14). 3.21 mi. of grading. Requires approx. 4,115,000 cu. yds. roadbed excavation; 141,000 cu. yds. embankment foundation excavation; 1,000 cu. yds. Class "A" concrete; 84,000 lbs. metal reinf.; 2,383 lin. ft. struc. plate pipe; 46,690 lin. ft. corrugated metal culvert and drain pipe; and 1,300 rods Type 2 fence.

GRANT COUNTY: Middle Unit, Hamilton-Long Creek Section of the Kimberly-Long Creek Highway, about 1.5 mi. west of Long Creek. Federal Aid Project No. DS-260(5). 5.83 mi. grading and oiling. Requires approx. 102,500 cu. yds. roadbed excavation; 104,540 tons crushed material in base and oiling; 120 tons MC-2 asphalt; 270 tons 120-150 asphalt; and 80 tons RS-1 asphalt.

JACKSON COUNTY: Third St. - Green Springs Jct. Section of the Pacific Highway in the City of Ashland. Federal Aid Project No. DU-190(9). 1.11 mi. grading and paving. Requires approx. 5,500 cu. yds. roadbed excavation; 520 cu. yds. Class "A" concrete; 3,330 cu. yds. crushed material in base and binder; 26 tons RC-3 asphalt; 4 tons RS-1 asphalt; and 6,000 tons Class "B" asphaltic concrete.

JACKSON COUNTY: Trail Creek Bridge Section of the Crater Lake Highway, about 22 mi. north of Medford. Federal Aid Project No. S-47(7). 0.77 mi. grading, paving and structure; also crushed material in stock piles. Requires approx. 67,900 cu. yds. roadbed excavation; 11,000 cu. yds. toe excavation; 1,600 lin. ft. metal guardrail; 30 metal sight posts; 30 rods Type 3 fence; 21,000 cu. yds. crushed materials in base and in stock piles; 22 tons RC-3 asphalt; 3,000 tons asphaltic concrete mixture; 180 tons 85-100 asphalt; 385 cu. yds. Class "A" concrete in structure and box culvert; 81,600 lbs. metal reinf. in struct. and box culvert; and 210 lin. ft. steel piling.

JACKSON AND KLAMATH COUNTIES: Prospect - Park Boundary Section of the Crater Lake Highway, north and east from Prospect. State project. Requires furnishing approx. 9,000 cu. yds. crushed material in stock piles.

KLAMATH COUNTY: Middle Unit, Crescent Lake Jct.-The Dalles-California Jct. Section of the Willamette Highway, about 40 mi. southeast of Oakridge. Federal Aid Project No. DF-184(4). 3.28 mi. grading and paving. Requires approx. 67,900 cu. yds. roadbed excavation; 2,250 lin. ft. metal guardrail; 59,455 tons crushed material in base and shoulder oiling; 80 tons RC-3 asphalt; 56 tons 120-150 asphalt; 16 tons RS-1 asphalt; 10,800 tons asphaltic concrete mixture; and 650 tons 85-100 asphalt in mixture.

KLAMATH COUNTY: Chiloquin (Second Avenue) Section on Second Avenue in the City of Chiloquin. City project. 0.32 mi. stone base and paving. Requires approx. 20 hours blade-grader time; 30 cu. yds. State-furnished aggregates; and 730 tons Class "B" asphaltic concrete pavement.

LANE COUNTY: Santa Clara-Eugene Section of the Junction City-Eugene Highway extending north from Eugene. Federal Aid Project No. DS-373(1). 2.90 mi. paving. Requires approx. 100 hours blade-grader time; 80 hours front end loader; 240 hours dump trucks; 24,400 lin. ft. sewer pipe; 4,370 cu. yds. crushed material in base and shoulder oiling; 6,800 tons Class "B" asphaltic concrete; 54 tons 120-150 asphalt; and 40 tons RS-1 asphalt.

LANE COUNTY: Knowles Creek Tunnel Section of the Mapleton-Richardson Road, about 5.2 mi. east of Mapleton. State project. Curb construction. Requires approx. 96 cu. yds. Class "A" concrete; and 306 cu. yds. State-furnished base materials.

MALHEUR COUNTY: Jonesboro - Tunnel Section of the Central Oregon Highway, about 12.2 mi. east of Juntura. Federal Aid Project No. F-326(4). 8.19 mi. grading and paving and 3 concrete slab span structures. Requires approx. 129,200 cu. yds. roadbed excavation; 3,600 lin. ft. metal guardrail; 100 rods Type 1 fence; 57,800 tons crushed material in base; 24 tons MC-2 asphalt; 29,000 tons asphaltic concrete mixture; 1,740 tons 85-100 asphalt; 16 tons RS-1 asphalt; 395 cu. yds. Class "A" concrete; and 77,950 lbs. metal reinf.

MALHEUR COUNTY: Ontario (W. Idaho Ave.) Section on West Idaho Ave. in the City of Ontario. City project. 0.47 mi. stone base and paving. Requires approx. 1,060 cu. yds. crushed material in base; 22 tons MC-2 asphalt; and 2,250 tons Class "B" asphaltic concrete.

MARION COUNTY: Lancaster Drive-Sublimity Gun Club Section of the North Santiam Highway, extending easterly from Salem. Federal Aid Project Nos. S-220(12) and S-265(6). 9.78 mi. grading. Requires approx. 16,000 cu. yds. embankment foundation excavation; 973,200 cu. yds. roadbed excavation; 20,000 cu. yds. special stone fill; 320 cu. yds. Class "A" concrete; 44,300 lbs. metal reinf.; 7,600 rods Type 2 fence; 31,250 tons crushed material in base and oiling; 50 tons RC-3 asphalt; and 150 tons 150-200 asphalt.

MARION COUNTY: 12th St.-E. City Limits (Salem) Section of the Silver Creek Falls Highway in Salem. Federal Aid project No. DUS-265(5). 0.95 mi. grading and paving and reconstruction of one bridge. Requires approx. 5,500 cu. yds. roadbed excavation; 718 cu. yds. Class "A" concrete in curbs, walks, driveways and bridge reconstruction; 2,100 lbs. metal reinf.; 3,900 tons Class "B" asphaltic concrete; and 4 tons RS-1 asphalt.

MULTNOMAH COUNTY: Airport-Alberta St. Section of 82nd Ave. and the Cascade Highway, southerly from the International Airport at Portland. FAP Nos. S-364(3) and US-364(2). 1.64 mil. grading and paving; also construction of three structures. Requires approx. 225,000 cu. ds. excavation; 9,200 cu. yds. top-soil; 145 cu. yds. conc. in curbs and islands; 1970 lin. ft. guardrail; 7,200 lin. ft. median barrier; 71,000 tons stone base materials; 125 tons RC-3 asphalt; 16 tons 120-150 asphalt; 5 tons RS-1 asphalt; 17,400 tons asphaltic conc. pavement; 2,625 cu. yds. struct. excavation; 1,120 lin. ft. steel piling; 3,176 cu. yds. conc. in struct.; 526,500 lbs. metal reinf.; struct. steel (approx. 530,000 lbs.); 2,520 lin. ft. timber piling; and 46 M-FBM lumber and timber.

MULTNOMAH COUNTY: 19th Ave. and Multnomah Blvd. Undercrossings on Harbor Drive-Washington County Line Section of the Pacific Highway (R. H. Baldock Freeway) in Portland. Federal Aid Project No. I-5-6(3)296. 387.5' reinf. conc. bridge to carry 19th Ave. traffic over Pacific Highway, and 405' reinf. concrete and struct. steel bridge to carry Multnomah Blvd. traffic over Pacific Highway. Requires approx. 1,200 cu. yds. struct. excavation; 3,300 lin. ft. steel piling; 4,800 lin. ft. treated timber piling; drive 220 piles; 1,750 cu. yds. Class "A" Concrete; 386,000 lbs. metal reinf.; 800 lin. ft. metal rail; 375,000 lbs. struct. steel; 810 lin. ft. pipe parapet rail; 350 lin. ft. 8" metal drain pipe; and 530 sq. yds. conc. slab riprap.

POLK COUNTY: Church St. and East St.-E. City Limits (Monmouth) Sections of Church St. and the Monmouth-Independence Highway in Monmouth. State project. 0.52 mi. grading and paving. Requires approx. 1,960 cu. yds. roadbed excavation; 3,840 cu. yds. crushed material in base; and 1,840 tons Class "B" asphaltic concrete.

UMATILLA COUNTY: Pendleton Maint. Shed Addition. State project. Construct 36'x54'-8" masonry block addition to existing maintenance shed.

WASHINGTON COUNTY: McFee Bridge (Bonner Bridge over McFee Creek), about 9.68 mi. south of Hillsboro on the Hillsboro-Silverton Highway. State project. Remove existing timber deck and precast conc. deck. Requires approx. 117 cu. yds. Class "A" concrete; 40,000 lbs. metal reinf.; 3.5 tons asphaltic concrete.

THE MINIMUM HOURLY WAGE RATES TO BE PAID TO LABOR EMPLOYED ON THE ABOVE ADVERTISED FEDERAL INTERSTATE PROJECTS HAVE BEEN PREDETERMINED BY THE SECRETARY OF LABOR AND ARE AS SET FORTH IN THE SPECIAL PROVISIONS APPLICABLE TO THOSE RESPECTIVE PROJECTS. THE MINIMUM HOURLY WAGE PAID TO LABOR EMPLOYED ON OTHER FEDERAL-AID PROJECTS SHALL BE AS FOLLOWS: SKILLED LABOR, $2.25 PER HOUR; INTERMEDIATE LABOR, $2.00 PER HOUR; UNSKILLED LABOR, $1.75 PER HOUR.

Prequalification of bidders will be required in accordance with the provisions of ORS 279.010 to 279.024, inclusive. Full information for bidders may be obtained at the office of the Oregon State Highway Commission, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by eligible bidders upon payment of $2.00 for each set.

Plans and specifications may also be inspected at the office of the Associated General Contractors in Portland, Seattle, Spokane, and Boise; and at the Builders Exchange Cooperative, Portland.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for the State of Oregon.

OREGON STATE HIGHWAY COMMISSION
H. B. Glaisyer, Secretary.
6150—5-17

WATER DISTRIBUTION SYSTEM
BIDS CLOSE 10 A.M., P.S.T., JULY 2
Anchorage, Alaska
NOTICE TO CONTRACTORS

INVITATION FOR BIDS (Construction Contract). Project Aaa. 50-A-245, Water System, Mt. View, Anchorage, Alaska. DATE: April 30, 1958. NAME AND LOCATION OF PROJECT: MOUNTAIN VIEW WATER DISTRIBUTION SYSTEM, Project Aaa 50-A-245, Anchorage, Alaska. DEPARTMENT OR AGENCY: Alaska Public Works, Office of Territories, Department of the Interior. **By (Issuing Office)** Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time July 2, 1958 in the mailroom of the office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, Post Office Box 1181, Juneau, Alaska and then **publicly** opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 5621 Interior Bldg., Washington 25, D. C.; at the Area Engineer's office, Alaska Public Works, Reliable Service Bldg., Anchorage, Alaska; and Associated General Contractor's of America offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center Street, Tacoma, Wash.; Portland Chapter, Suite 112, Multnomah Hotel, Portland, Ore.; The Alaska Chapter, 306 Central Bldg., Anchorage, Alaska, and the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and the Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. Funds for the award of this project are not currently available. The conractor will place his bid subject to allotment of funds. It is presently anticipated that these funds will be allotted prior to July 31, 1958, and

the project will be awarded on or before that date, provided that the funds are allotted and a satisfactory bid is received.
6131—5-10, 17, 24

DRILL, CASE WATER WELL
BIDS CLOSE 10 A.M., P.S.T., MAY 26
Kalispell, Montana
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sports Fisheries and Wildlife, The Interior Building, 1001 N. E. Lloyd Blvd., P. O. Box 3737, Portland 3, Oregon. Telephone: BEImont 4-3361, Extension 246. Sealed bids will be received in this office until 10:00 A.M. P.S.T., May 26, 1958, and then publicly opened, for furnishing all equipment, materials, supplies and labor required to drill and case a fresh water supply well at the Creston Fish-cultural Station, Kalispell, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.
6139—5-13, 20

WATER WORKS CONSTRUCTION
BIDS CLOSE 8 A.M., P.S.T., JUNE 11
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed proposals will be received by the undersigned at the Public Utility District Office, 208 First National Bank Building, Olympia, Washington, until 08:00 A.M. Pacific Standard Time, June 11, 1958, for furnishing and installing the following:

Schedule A—Well Pump Installation together with necessary appurtenances.

Schedule B—2,400 linear feet of 4" and 8", Class 150, asbestos cement pipe, together with valves, hydrants and other necessary appurtenances.

Schedule C—1,500 linear feet of 6", Class 150, asbestos cement pipe, together with valves, hydrants and other necessary appurtenances.

Plans and Specifications are on file at the Public Utility District Office and the offices of Howard T. Harstad & Associates, Consulting Engineers, 1000 Lenora Street, Seattle 1, Washington. Plans and Specifications may be obtained from the Engineers by depositing $15.00 per set.

Each bid shall be accompanied by a certified check, cashier's check or bid bond payable to Thurston County Public Utility District No. 1, for a sum not less than five percent (5%) of the amount of the bid, and no bid will be considered unless accompanied by such check or bid bond.

At the time and place named, the bids will be publicly opened and read. The Board reserves the right to reject any or all proposals or to waive informalities in the bidding.

Harvey Thompson, Secretary
Board of Commissioners
Public Utility District No. 1
Thurston County, Washington

6140—5-13

LIBRARY
BIDS CLOSE 2 P.M., P.S.T., MAY 27
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed bids will be opened by the Oregon State Board of Higher Education at Room 20, General Extension Division Building, 1633 S.W. Park Avenue, Portland 1, Oregon, at 2:00 P.M., Pacific Standard Time, on Tuesday, May 27, 1958, for the construction of the Portland State College Library Building.

Bids for the Mechanical Work and for the Electrical Work, separately, must be received at the address indicated above prior to 2:00 P.M., Pacific Standard Time, on the preceding day, Monday, May 26, 1958, but will be retained unopened for a 24-hour period. Bids for the General Work only, and/or for a combination of the General, Mechanical and Electrical Work, must be received by 2:00 P.M., Pacific Standard Time, Tuesday, May 27, 1958, when all bids received for the project will be opened and read.

Briefly, the proposed work consists of a four-story building, plus basement; concrete and steel construction; window wall and masonry exterior; total area approximately 50,000 square feet; bridge connection with classroom building, southwest Montgomery Street and Broadway, Portland, Oregon.

Two sets of drawings, specifications and forms of contract documents may be obtained by prime bidders only from Lawrence, Tucker and Wallmann, Architects, 912 Failing Building, Portland 4, Oregon, upon a deposit of $100 for the General Work, $25 for the Mechanical Work and $25 for Electrical Work. Additional sets may be obtained from the Architects for the cost of reproduction.

Deposits made upon the procurement of drawings, specifications and forms of contract documents will be refunded upon the return thereof in good condition by actual bidders within two weeks after the opening of bids, but to non-bidders only if returned no later than two weeks prior to the bid opening.

The drawings, specifications and forms of contract documents may be examined at the Builders Exchange in Portland or at the office of the Architects.

All bidders must be prequalified in accordance with Chapter 279, Oregon Revised Statutes.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" upon the bid form provided by the Architects and accompanied by a certified check or bid bond, executed in favor of the State of Oregon and the Oregon State Board of Higher Education in an amount not less than ten percent of the total amount of the bid, to be forfeited as fixed and liquidated damages should the bidder neglect or refuse to enter into a contract and provide suitable bond for the faithful performance of the work in the event the contract is awarded to him.

The Oregon State Board of Higher Education reserves the right to reject any or all bids and to waive all informalities.

No bidder may withdraw his bid after the latest hour set for the receipt thereof until after the elapse of 30 days from the bid opening.

OREGON STATE BOARD OF HIGHER EDUCATION,
Earl M. Pallett, Secretary, Eugene, Oregon
6113—4-24; 5-1

CONCRETE BASEMENT, FOUNDATION
BIDS CLOSE 10 A.M., MAY 28
Portland, Oregon
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, The Interior Building, 1001 N.E. Lloyd Blvd., P.O. Box 3737, Portland 8, Oregon. Telephone: BElmont 4-3361, Extension 245. Sealed bids will be received in this office until 10:00 A.M., P.S.T., May 28, 1958, and then publicly opened, for furnishing all equipment, materials, supplies and labor required to construct a concrete basement for a residence and a concrete foundation and floor slab for a metal building at the Sipary Ann Game Station of the Fort Peck Game Range, located North of the Missouri River, approximately 70 miles Southwest of Malta, Montana. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.
6144—5-14, 20

PUBLIC LIBRARY
BIDS CLOSE 2 P.M., JUNE 3
Seattle, Washington
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Seattle Public Library, at the office of the Librarian, 1631 Seventh Avenue, Seattle 1, Washington until 2:00 P.M., June 3, 1958, for separate General Contract (including Mechanical and Electrical) and Vertical Transportation contracts for construction of a new Central Library Building. Proposals will be publicly opened and read aloud immediately thereafter. Proposals received after the time set for opening cannot be considered.

Specifications and drawings may be examined at the office of Bindon & Wright, 715 Hoge Building and may be obtained at the above office.

A deposit of $100.00 for two sets of General Contract drawings and specifications and $10.00 for Vertical Transportation Contract sets will be required.

The deposit for the two sets of documents will be refunded to actual prime contract bidders upon return of the documents in good condition. Prime contract bidders requiring more than two sets of documents and subcontract bidders desiring prints of drawings for their own use may obtain same by paying the actual cost of printing, which amount will not be refunded.

The Board of Trustees reserves the right to reject any or all bids, and to waive informalities.

By Willard O. Young
Secretary
Board of Trustees
Seattle Public Library
1631 Seventh Avenue
Seattle 1, Washington

6141—5-13, 17, 24

INSTALL OIL BURNER
BIDS CLOSE 10 A.M., P.S.T., MAY 28
Leavenworth, Washington
NOTICE TO CONTRACTORS

U. S. Department of the Interior, Fish and Wildlife Service, Bureau of Sport Fisheries and Wildlife, The Interior Building, 1001 N.E. Lloyd Blvd., P. O. Box 3737, Portland 8, Oregon. Telephone BElmont 4-3361, Ext. 245. Sealed bids will be received in this office until 10:00 A.M. P.S.T. May 20, 1958, and then publicly opened, for the furnishing of all equipment, materials, supplies, and labor required to convert one "Kewanee" boiler with rating of approximately 4,600 E.D.R. at #15 steam pressure, from coal stoker firing to oil burner firing, at the U. S. Fish Cultural Station, Leavenworth, Washington. Plans and specifications may be obtained at the above address. Leo L. Laythe, Regional Director.
6125—5-6, 13

BRIDGE
BIDS CLOSE 3 P.M., P.S.T., MAY 29
Skagit River, Washington
NOTICE TO CONTRACTORS

Sealed bids for construction of Skagit River Bridge (reinforced concrete), Mt. Baker National Forest, Whatcom County, Washington, will be received until 3:00 p.m., P.S.T., May 29, 1958, by the Regional Supply Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland 8, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Bellingham, Wash.
6143—5-14

STEEL PENSTOCK
BIDS CLOSE JUNE 5
Trinity Dam, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-5049) will be received at Denver, Colorado, until June 5, 1958, for furnishing one (1) 16-foot diameter steel penstock with branch outlet pipes. Estimated weight 4,800,000 pounds. Delivery required at dam site. Area available for field fabrication plant if desired, for Trinity Dam, Central Valley Project, California. Delivery is desired within 720 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.
6133—5-17

WELL DRILLING
BIDS CLOSE 10 A.M., P.S.T., MAY 28
Portland, Oregon
NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P.O. Box 4136, Portland 8, Oregon, until 10:00 A.M. Pacific Standard Time, Wednesday, May 28, 1958, for the DRILLING OF A WELL ON THE GAME COMMISSION PROPERTY on Highway 30, at Gnat Creek, approximately 22 miles east of Astoria, Clatsop County, Oregon, and will then and there be opened and publicly read aloud. Bids received at the time fixed for opening the same will not be considered unless delay is due solely to the mails.

Plans, Specifications and Contract Documents may be obtained at the office of the Oregon State Game Commission, 1634 S.W. Alder Street, Portland 8, Oregon.

All contractors shall comply with all Sta

laws pertaining to the qualifications of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342, inclusive.

Each proposal shall be made out on Form of Proposal contained in the contract documents and shall be accompanied by a certified check or bid bond made payable to the Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal. The Oregon State Game Commission reserves the right to reject any or all bids.

OREGON STATE GAME COMMISSION
By: P. W. Schneider, Director
1634 S. W. Alder Street
P. O. Box 4136
Portland 8, Oregon

6136—5-9, 10, 13

STEEL WATER TANK, TOWER

BIDS CLOSE 10 A.M., P.S.T., MAY 28

Portland, Oregon

NOTICE TO CONTRACTORS

Sealed proposals will be received by the Oregon State Game Commission, 1634 S.W. Alder Street, P.O. Box 4136, Portland 8, Oregon, until 10:00 A.M. Pacific Standard Time Wednesday, May 28, 1958, for the CONSTRUCTION OF A 30,000 GALLON ELEVATED WATER STORAGE TANK, consisting of steel tower and tank; valving and piping, located on Game Commission property on Highway 30 at Gnat Creek, approximately 22 miles east of Astoria, Clatsop County, Oregon, and will then and there be opened and publicly read aloud. Bids received after the time fixed for opening the same will not be considered unless delay is due solely to the mails.

Plans, Specifications and Contract Documents may be obtained at the office of the Oregon State Game Commission at 1634 S.W. Alder Street, Portland 8, Oregon.

All contractors shall comply with all State laws pertaining to the qualifications of bidders, and particularly Oregon Revised Statutes 279.008 to 279.342, inclusive.

Each proposal shall be made on a Form of Proposal contained in the contract documents and shall be accompanied by a certified check or bid bond made payable to the Game Commission of the State of Oregon in an amount not less than ten per cent (10%) of the total amount of the proposal. The Oregon State Game Commission reserves the right to reject any or all bids.

No bidder may withdraw his bid after the hour set for the opening unless said award is delayed for a period exceeding thirty days.

OREGON STATE GAME COMMISSION
By: P. W. Schneider, Director
1634 S. W. Alder Street
P. O. Box 4136
Portland 8, Oregon

6137—5-9, 10, 13

EXCAVATION, GRADING, PAVING SIDEWALK, CURB, GUTTER

BIDS CLOSE 11 A.M., P.S.T., June 10

Juneau, Alaska

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, Bureau of Public Roads, Region 10. Sealed bids, in single copy, for furnishing all labor, equipment, and materials and performing all work for Project No. DF-031-1(2), Seward-Anchorage Highway (Third Avenue, Seward, Alaska), described herein will be received until 11:00 a.m., PST, June 10, 1958, in Room 119, Federal Building, Juneau, Alaska. Principal items of work included in the project are unclassified excavation, 11,500 cubic yards; excavation for structures, 1,720 cubic yards; crushed aggregate base, grading D-1, 4,89 tons; hot bituminous concrete pavement, 2,800 tons; 4" concrete sidewalk, 2,061 square yards; 6" curb and gutter, 3,276 lineal feet. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6142-5-17,24

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., MAY 27

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington on Tuesday, May 27, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 10 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment, Paving with Asphaltic Concrete and Stockpiling Crushed Surfacing and Mineral Aggregates on 11.943 miles of Primary State Highway No. 2 in Lincoln County, DAVENPORT TO REARDAN, FAP No. F-028-4(4), involving about 65,470 cubic yards of Common Excavation and Borrow, 2,040 cubic yards of Unsuitable Foundation Excavation, 355,345 tons of Crushed Surfacing, Crushed Cover Stone, Mineral Aggregate and Ballast, 80 cubic yards of Prime Coat Aggregate, 835 cubic yards of Riprap, 666 tons of Asphalt Cement, 30,950 tons of Asphaltic Concrete, 10,750 barrels of Portland Cement, 55,860 tons of Cement Treated Base, 8,828 linear feet of Asphaltic Concrete Curb, 102 cubic yards of Concrete, 22,940 pounds of Steel Reinforcing Bars, 348 linear feet of Concrete Pipe, 1,456 linear feet of Metal Pipe, 10,225 linear feet of Beam Guard Rail, 133 Guide Posts and other items.

2. Clearing, Draining, Grading, Surfacing, Constructing Cement Treated Base, Paving with Asphaltic Concrete and Installing Illumination on 2.514 miles of Primary State Highway No. 9 in Thurston County, SCHNEIDERS PRAIRIE TO MASON COUNTY LINE, FAP No. DF-007-5(11), involving about 67 acres of Clearing, 375,690 cubic yards of Common Excavation, 19,100 cubic yards of Solid Rock Excavation, 3,860 cubic yards of Unsuitable Foundation Excavation, 48,310 tons of Selected Roadway Borrow, 10,500 cubic yards of Top Soil, 9,450 tons of Crushed Surfacing, 1,350 cubic yards of Crushed Cover Stone and Mineral Aggregate, 228 tons of Asphalt Cement, 14,140 tons of Asphaltic Concrete, 5,490 barrels of Portland Cement, 20,300 tons of Cement Treated Base, 2,100 linear feet of Asphaltic Concrete Curb, 880 linear feet of Precast Traffic Curb, 77 cubic yards of Concrete, 3,840 linear feet of Concrete Pipe, 392 linear feet of Metal Pipe, 3,932 linear feet of Beam Guard Rail, 190 Guide Posts, 23,780 linear feet of Wire Fence, a lump sum bid for Illumination Systems and other items.

3. Clearing, Draining, Grading and Constructing Two Reinforced Concrete Slab Bridges on 4.710 miles of Secondary State Highway No. 12-B in Pacific County, BEAN CREEK TO NASELLE, FAP No. F-003-1(7), involving about 55 acres of Clearing, 164,000 cubic yards of Unclassified Excavation, 28,400 cubic yards of Common Excavation, 750 cubic yards of Crushed Surfacing and Ballast, 6 cubic yards of Concrete, 5,494 linear feet of Concrete Pipe, 276 linear feet of Metal Pipe, 305 linear feet of Iron Pipe, 5 Guide Posts, 495 cubic yards of Riprap, 4,300 linear feet of Wire Fence, a lump sum bid for Two Super-structures (about 350 cubic yards of Concrete and 81,000 pounds of Steel Reinforcing Bars) 182 linear feet of Beam Guard Rail, 195 linear feet of Standard Bridge Railing, 1,350 linear feet of Concrete Piling and other items.

4. Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment, Paving with Asphaltic Concrete and Installing Illumination on 2.725 miles of Primary State Highway No. 1 in Skagit County JCT. SSH 1-D TO ANACORTES, FAS Nos. S-0964(5) and US-0964(6), involving about 12,130 cubic yards of Common Excavation and Borrow, 28,000 tons of Selected Roadway Borrow, 7,300 tons of Crushed Surfacing, 790 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 138 tons of Asphalt Cement, 9,600 tons of Asphaltic Concrete, 2,920 barrels of Portland Cement, 13,700 tons of Cement Treated Base, 3,830 linear feet of Cement Concrete Gutter, 530 linear feet of Cement Concrete Curb, 4,250 linear feet of Asphaltic Concrete Curb and Spillway, 2,190 linear feet of Extruded Traffic Curb, 234 linear feet of Concrete Pipe, 641 linear feet of Metal Pipe, 6,198 linear feet of Beam Guard Rail, 401 Guide Posts, 4 lump sum bids for Illumination Systems and other items.

5. Clearing and Grubbing on 0.795 mile of Secondary State Highway No. 9-A in Clallam County, LYRE RIVER BRIDGE VICINITY, FAS No. DS-0217(2), involving about 14 acres of Clearing and 11 acres of Grubbing.

6. Clearing, Draining, Grading, Surfacing and Constructing a Reinforced Concrete Box Girder Bridge on 0.284 mile of a Lewis County Road, SILVER CREEK-MOSSYROCK ROAD-TILTON RIVER BRIDGE, FAS No. S-0630(1), involving about 17,000 cubic yards of Common Excavation, 2,200 cubic yards of Crushed Surfacing and Ballast, 114 linear feet of Concrete Pipe, 205 cubic yards of Concrete, 19,400 pounds of Steel Reinforcing Bars, 570 linear feet of Steel Bridge Railing, a lump sum bid for Superstructure (about 536 cubic yards of Concrete and 154,650 pounds of Steel Reinforcing Bars) and other items.

7. Clearing, Draining, Grading, Surfacing and Constructing a Reinforced Concrete Girder Bridge on 0.294 mile of a Lewis County Road, KLABER ROAD, FAS No. S-0338(5), involving about 11,000 cubic yards of Common Borrow, 1,700 cubic yards of Selected Roadway Borrow, 374 cubic yards of Concrete, 85,000 pounds of Steel Reinforcing Bars, 422 linear feet of Steel Railing and other items.

8. Surfacing and Constructing Bituminous Surface Treatment on 10.203 miles of Douglas County Roads, WHITEHALL, MUDSPRINGS AND McNIEL CANYON ROADS, FAS Nos. S-1124(1) and S-1120(1) and County Project, involving about 30,980 cubic yards of Crushed Surfacing and Crushed Cover Stone, 427 tons of Asphalt Cement and other items.

9. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 4.801 miles of an Okanogan County Road, TORODA CREEK ROAD, FAS No. S-1143(1), involving about 85,490 cubic yards of Unclassified Excavation, 15,840 cubic yards of Selected Roadway Borrow, 1,090 linear feet of Metal Pipe, 56 linear feet of Structural Plate Pipe-Arch, 200 cubic yards of Riprap, 27,475 linear feet of Wire Fence and other items.

10. Clearing, Draining, Grading and Surfacing on 1.566 miles of a Cowlitz County Road, COAL CREEK ROAD, FAS No. S-0710(1), involving about 7 acres of Clearing, 20,135

cubic yards of Common Excavation, 5,690 cubic yards of Solid Rock Excavation, 19,590 tone of Crushed Surfacing and Ballast, 21 cubic yards of Concrete, 725 linear feet of Concrete Pipe, 270 linear feet of Metal Pipe, 263 linear feet of Beam Guard Rail and other items.

11. Grading, Surfacing and Constructing Bituminous Plant Mix on 6.236 miles of State Highways Nos. 21 and 21-A in Kitsap County, POULSBO TO PORT GAMBLE AND SUQUAMISH JCT. VICINITY, a State Project, involving about 3,480 cubic yards of Common Excavation, 6.460 tons of Crushed Surfacing, 45 cubic yards of Prime Coat Aggregate, 37 tons of Asphalt Cement, 15,735 tons of Bituminous Plant Mix and other items.

12. Constructing Bituminous Surface Treatment on 31.100 miles of State Highways Nos. 1, 5, 8, 12, 1-Q and 1-S in Clark, Cowlitz, Lewis, Pacific and Klickitat Counties, NATIONAL AVENUE TO SALZER CREEK, ET AL, a State Project, involving about 720 tons of Asphalt Cement, 260 cubic yards of Crushed Cover Stone, 5,985 cubic yards of Mineral Aggregate and other items.

13. Stockpiling Crushed Stone Surfacing and Mineral Aggregates on Secondary State Highways Nos. 9-D and 5-N in Mason and Pierce Counties, KAMILCHE AND GRAHAM VICINITIES, a State Project, involving about 38,000 tons of Crushed Materials and other items.

14. Constructing Bank Protection on Primary State Highway No. 9 in Jefferson County, DOSEWALLIPS RIVER REVETMENT, a State Project, involving about 5,440 cubic yards of Loose Riprap and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways
6135—5-10, 17

BITUMINOUS PAVING
BIDS CLOSE 10 A.M., JUNE 3
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, May 16, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m. on June 3, 1958, for furnishing the material and performing the work for constructing 13.689 miles bituminous paving and other improvements, Mt. Rainier National Park Project 5-A5, B3, C3, D6, East Side Road, Pierce and Lewis Counties, Washington, involving 10 acres Clearing and grubbing; 21,687 cu. yds. Excavation; 4,470 tons Special subbase; 46,473 tons Crushed aggregate base; 348 tons Asphalt; 2,223 tons Asphalt cement; 324 lin. ft. Culvert pipe; 31,170 tons Plant mixture; 530 lin. ft. Concrete Curb and gutters; 1,200 sq. yds. Bituminous sidewalk, and other small items of work. The attention of prospective bidders is directed to the special clause "United States-Flag Vessel Provisions" included in the Special Provisions for this project. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6146—5-17, 24

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., MAY 22
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 a.m. on May 22, 1958. The proposals will be publicly opened and read immediately thereafter. **YOUR ATTENTION IS DIRECTED TO THE 9:00 A.M. HOUR SET FOR THE OPENING OF BIDS IN ROOM 151 OF THE STATE HIGHWAY DEPARTMENT BUILDING.**

1. IN 90-9(5)498 U2 & IN 90-9(7)508 U2—Construction of one 209.5' concrete overpass, two 118.0' concrete overpasses, two 133.0' concrete overpasses, one 164.5' concrete bridge and one 153.0' concrete bridge on the Crow Agency-Hardin Road in Big Horn County, involving about 653 cu. yds. excavation; 1,051 lin. ft. steel bridge rail; all lump sum maintaining traffic on IN 90-9(7)508; 9,017 lin. ft. treated timber piles; 1,022.92 lin. ft. steel beam bridge rail; 276,885 lbs. reinforcing steel; 2,193 cu. yds. concrete; 1,400 cu. yds. structure excavation; 638 lin. ft. driving steel bearing piles; 23,760 lbs. furnishing steel bearing piles; 5,605 lin. ft. precast prestressed concrete beam; all lump sum treated timber test piles and 8,283 lin. ft. drive treated timber piles. Project to be completed by July 31, 1959.

2. IN 90-9(6)510—Plant-mix surfacing and seal-coat oiling 6.557 miles on the Wyoming Line-Crow Agency Road in Big Horn County, involving about 1,951 tons crushed aggregate; 34,404 tons plant mix; all lump sum furnish and maintain water plant; 78 units rolling; 1,892.37 tons asphalt cement; 265.79 tons cutback asphalt and 59 hours watering. Project to be completed in 100 calendar days.

3. DF 191(18)—Plant-mix surfacing and seal-coat oiling 7.488 miles on the Pablo-Kalispell Road in Lake County, involving about 1,874 tons crushed aggregate; 6 units rolling; 45 tons cutback asphalt; 178.58 tons emulsified asphalt; 1,304.96 tons penetration asphalt cement; 23,771 tons plant mix; 28 hours watering; 2,800 lin. ft. beam guard rail; and other items. Project to be completed in 130 calendar days.

4. F 238(7)—Grade, aggregate surfacing, plant-mix surfacing, seal-coat oiling, and drain 10.454 miles on the Wolf Creek-Augusta Road in Lewis and Clark County, involving about 803,642 cu. yds. excavation; 861 cu. yds. aggregate backfill; 76,816 mi. yds. overhaul; 214,875 tons crushed aggregate; 28,777 tons plant mix; 16,253 M gals. watering; 2,587 units rolling; 1,581.78 tons asphalt cement; 270.07 tons cutback asphalt; 224.62 tons emulsified asphalt; 278 lin. ft. corrugated metal pipe; 312 lin. ft. structural plate pipe; 2,898 lin. ft. reinforced concrete pipe; 392 lin. ft. relay pipe culverts; all lump sum clearing and grubbing; 70 hours watering; all lump sum remove existing structure; and other items. Project to be completed in 300 calendar days.

5. DF-DFG 384(4)—Grade, aggregate surfacing, bituminous surface treatment, and drain 1.244 miles on the Forsyth-Northwest Road in Rosebud County, involving about 222,345 cu. yds. excavation; 1,740 cu. yds. riprap; 40,357 mi. yds. overhaul; 16,789 tons crushed aggregate; 25,574 tons uncrushed aggregate; 4,161 M gals. watering; 652 units rolling; 117.8 tons cutback asphalt; 1,066 lin. ft. reinforced concrete pipe; 29 hours watering; 1,862.5 lin. ft. steel beam guard rail; and other items. Project to be completed in 150 calendar days.

6. DS 35(8)—Grade, aggregate surface and drain 3.302 miles and surfacing an additional 7.500 miles on the Jackson-Dillon Road in Beaverhead County, involving about 74,480 cu. yds. excavation; 100 cu. yds. aggregate backfill; 1,974 mi. yds. overhaul; 69,387 tons crushed aggregate; 2,484 M gals. watering; 423 units rolling; 18 lin. ft. corrugated metal pipe; 792 lin. ft. reinforced concrete pipe; 33 lin. ft. relay pipe culverts; and other items. Project to be completed in 120 calendar days.

7. DS 91(4)—Grade, aggregate surfacing, bituminous surface treatment, and drain 3.443 miles on the Eden-Great Falls Road in Cascade County, involving about 188,498 cu. yds. excavation; 189 cu. yds. aggregate backfill; 4,787 mi. yds. overhaul; 40,970 tons crushed aggregate; 3,610 M gals. watering; 594 units rolling; 82.56 tons cutback asphalt; 82.56 tons emulsified asphalt; 60 lin. ft. corrugated metal pipe; 68 lin. ft. structural plate pipe; 1,338 lin. ft. reinforced concrete pipe; 36 lin. ft. relay pipe culverts; 42 hours watering; and other items. Project to be completed in 90 calendar days.

8. S 128(3)—Grade, aggregate surfacing, and drain 7.415 miles on the Wibaux-Sidney Road in Richland County, involving about 709,573 cu. yds. excavation; 141 cu. yds. aggregate backfill; 11,669 mi. yds. overhaul; 59,084 tons crushed aggregate; 11,590 M gals. watering; 234 units rolling; 2,436 lin. ft. corrugated metal pipe; 100 lin. ft. relay pipe culverts; all lump sum remove existing structure; and other items. Project to be completed in 200 calendar days.

9. S-253(1)—Grade, aggregate surfacing, bituminous surface treatment, and drain 3.567 miles on the Southeast of Toston-Northerly Road in Broadwater County, involving about 26,134 cu. yds. excavation; 100 cu. yds. aggregate backfill; 22,358 mi. yds. overhaul; 33,942 tons crushed aggregate; 27,393 tons uncrushed aggregate; 1,578 M gals. watering; 356 units rolling; 88.69 tons cutback asphalt; 88.69 tons emulsified asphalt; 1,152 lin. ft. corrugated metal pipe; 345 lin. ft. relay pipe culverts; 45 hours watering; and other items. Project to be completed in 90 calendar days.

10. DS 356(6)—Plant-mix surfacing and seal-coat oiling 11.69 miles on the Winnett-Arrow Road in Musselshell and Petroleum Counties, involving about 1,907 tons crushed aggregate; 22,614 tons plant mix; 778 units rolling; [illegible] tons emulsified asphalt; 1,243.81 tons asphalt cement; 57 hours watering; and other items. Project to be completed in 90 calendar days.

The above-listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in this proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of the bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, Helena, Montana. Plans and specifications for all Federal-aid projects are also on file and may be examined in the offices of the Bureau of Public Roads, Missoula.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer
6134—5-10, 17

GRADING, BRIDGE
BIDS CLOSE 10 A.M., MAY 22
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, May 9, 1958. SEALED BIDS will be received at the office of the Buerau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on May 23, 1958, for furnishing the material and performing the work for constructing 18.714 miles grading and a 170-foot reinforced concrete bridge, Oregon Timber Access Road Project BLM 60-A, Camp Creek Road, Bureau of Land Management-Coos Bay District, Douglas County, Oregon, involving 143 acres Clearing; 98 acres Grubbing; 664,000 cu. yds. Excavation; 1,188,000 sta. yds. Overhaul; 52,600 yd.-miles Overhaul; 284 cu. yds. Concrete; 60,000 lbs. Reinforcement Steel; 350 lin. ft. Steel Bridge Railing; 11,700 lin. ft. Culvert Pipe; 24 in. ft. Structural Plate Pipe; 19 each End Sections, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6132—5-10

GRADING, BRIDGE
BIDS CLOSE 10 A.M., MAY 21
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, May 7, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on May 21, 1958, for furnishing the material and performing the work for constructing 2.557 miles grading and a 93-foot reinforced concrete girder bridge, Oregon Forest Highway Project 47-F2, North Umpqua Highway, Umpqua National Forest, Douglas County, Oregon, involving 19 acres Grubbing; 28,400 cu. yds. Excavation; 426,000 sta. yds. Overhaul; 1,800 lin. ft. Culvert Pipe; 232 cu. yds. Concrete; 60,000 lbs. Reinforcement Steel; 200 lin. ft. Steel Bridge Railing, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6129—5-10

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VOL. 7 1958

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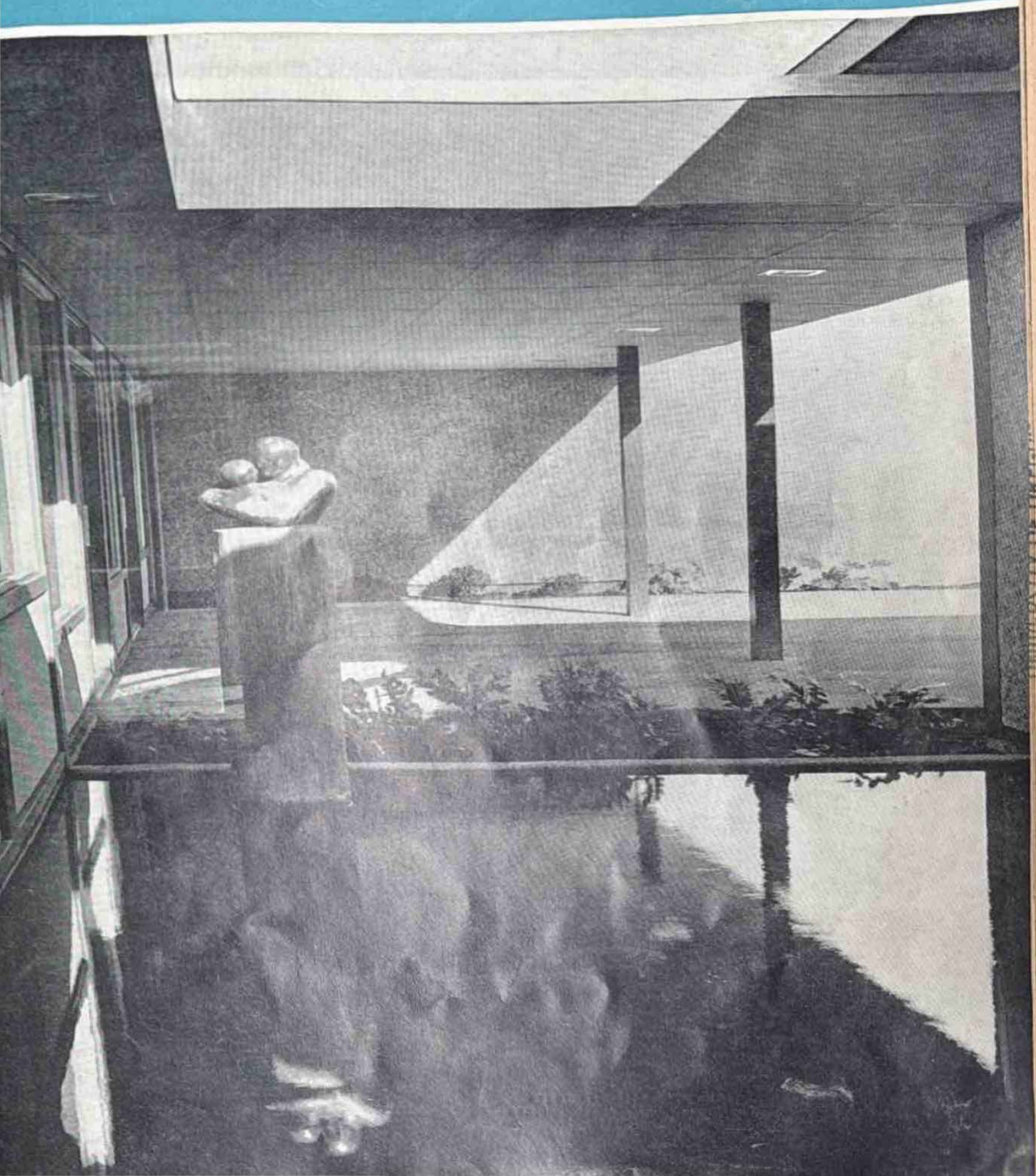
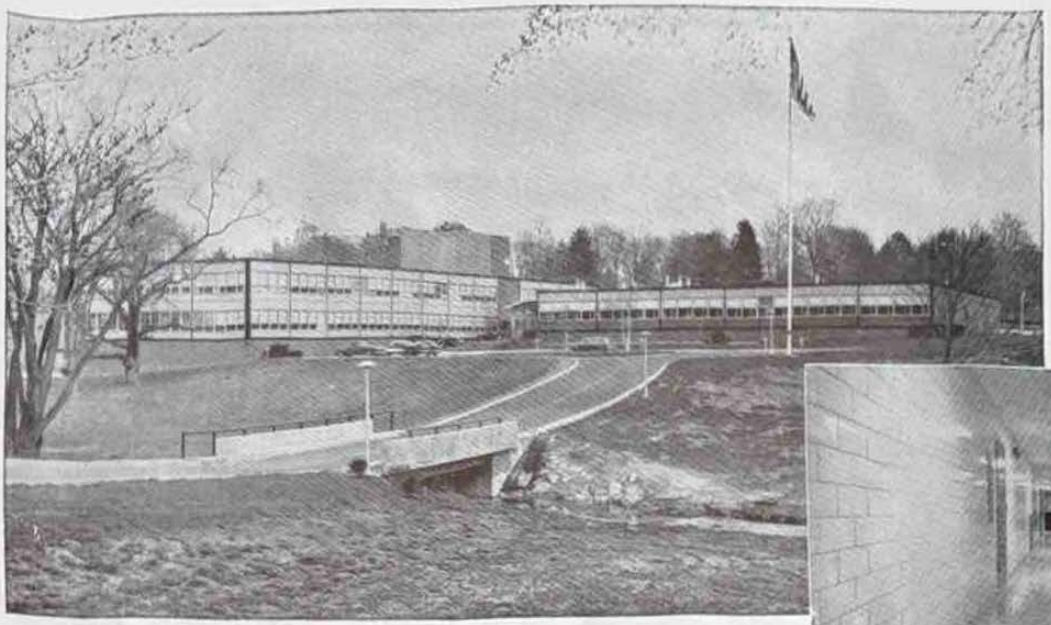


Works of Wonder

Wonder Bread Builds For Tomorrow With Erection of Distinctive Office-Research Laboratories



WONDER-LAND of Continental Baking Company is situated on 25-acre tract near New York City. Note below the gleaming walls which add clean, efficient look to product development laboratories.

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Rye, New York

Architect: LATHROP DOUGLASS
New York, N. Y.

General Contractor
HEGEMAN-HARRIS COMPANY, INC.
New York, N. Y.

Mason: AULETTA CONSTRUCTION CORPORATION
Yonkers, N. Y.

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New York, N. Y.

LONE STAR CEMENTS COVER
THE ENTIRE CONSTRUCTION FIELD

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pa&b
Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 6 JUNE 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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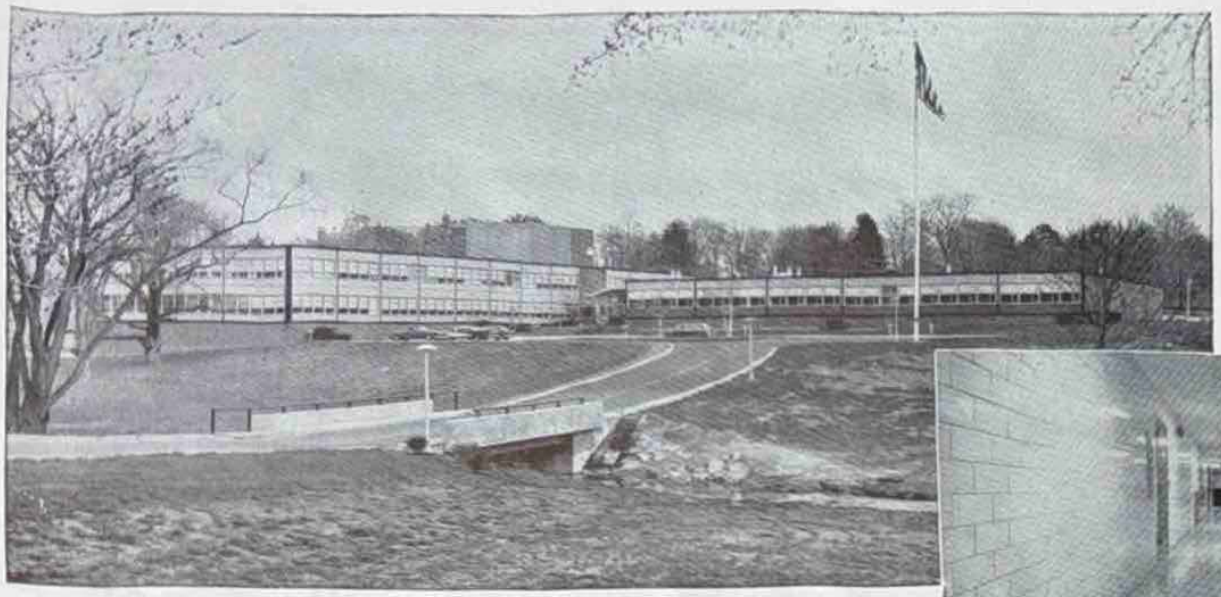
Springfield Public Library, Springfield, Ore. Lutes & Amundson, Architects — Community Planners; Tom Burns Jr. photo.

Works of Wonder

Wonder Bread Builds For Tomorrow With Erection of Distinctive Office-Research Laboratories



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Richard Leitch Residence, Altadena, Calif.: Richard Leitch, Architect 14

MacDonald, Young & Nelson Building, Oakland: Wurster, Bernardi & Emmons, Architects 16

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THE COVER

Springfield Public Library, Springfield, Ore. Lutes & Amundson, Architects — Community Planners; Tom Burns Jr. photo.

BUILDING PERMITS

May chalks up $27 million gain

Building permit volume in the five western states for May picked up a good $27 million over April, thanks to substantial increases in California and Washington. Oregon, Montana and Idaho, reported decreases.

ANALYSIS OF TYPICAL AREAS – MAY
(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	66	$ 4,268,850	26	$1,415,895	3	$ 284,165
King County	644	6,750,910	48	332,950	9	1,948,000
Seattle	601	4,183,237	259	2,701,110	5	1,761,000
Tacoma	144	660,710	35	386,920	1	35,000
Los Angeles County	1776	13,947,611	268	2,863,083	22	729,850
Orange County	221	3,042,088	45	192,125	1	216,495
Sacramento County	730	6,585,197	102	718,952	5	83,182

Compared to a year ago the five-state volume was $7½ million higher. Again the areawide picture varied, with Oregon, Washington and Montana recording increases and California and Idaho below May 1957. Although the California figure was high, aided by the best May on record for Los Angeles ($64,256,539), it was still $1¾ million below last year.

The dollar volume for the first five months has climbed to $1,072,777,100, an increase of $33¾ million over the same period in 1957. Oregon, Washington and Idaho are running ahead of last year; California and Montana are slightly behind. Five-month tabulation by states:

	Jan.-May 1958	Jan.-May 1957
Calif.	$850,114,453	$855,073,588
Ore.	76,295,117	49,726,082
Wash.	126,646,200	113,963,424
Mont.	9,565,872	11,027,662
Idaho	10,155,458	9,161,315

Building Permit Totals for 116 Western Agencies for May

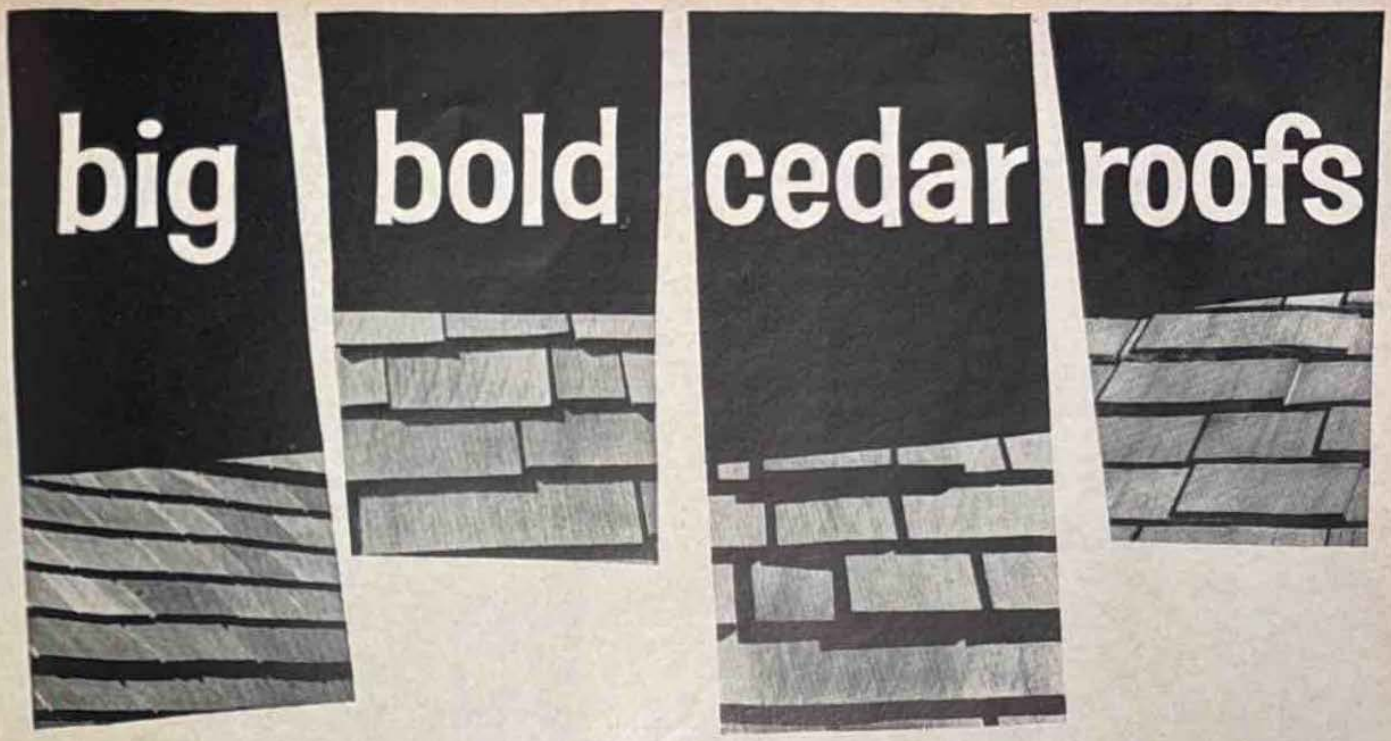
CALIFORNIA	May 1958	Apr. 1958	May 1957
Alameda County	$ 1,480,350	$ 1,401,750	$ 3,232,000
Anaheim	3,399,211	5,132,236	2,597,407
Bakersfield	556,085	786,488	309,571
Burbank	760,927	1,231,742	1,575,262
Contra Costa County	3,422,102	2,536,542	3,567,798
Fresno	2,594,941	2,469,561	5,872,435
Fullerton	3,522,441	730,737	848,289
Glendale	2,252,490	1,902,669	3,148,692
Inglewood	1,820,256	756,127	931,292
Long Beach	6,021,350	5,854,520	3,509,875
Los Angeles	64,256,539	42,613,701	52,076,683
Los Angeles County	19,575,558	21,470,821	28,130,303
Oakland	2,874,378	3,627,342	3,386,717
Ontario	405,527	439,990	504,963
Orange County	3,769,026	2,376,911	8,370,171
Palo Alto	1,353,588	1,556,358	8,285,870
Pasadena	1,995,034	1,688,074	5,808,222
Pomona	1,889,068	696,774	1,210,535
Richmond	993,366	395,207	812,526
Riverside	2,642,293	3,824,477	1,559,546
Sacramento	7,067,799	2,658,109	2,185,751
Sacramento County	7,583,807	6,222,979	6,388,440
San Bernardino	4,026,302	3,685,377	1,596,752
San Bernardino County	5,341,430	4,355,851	6,454,386
San Diego	15,470,459	11,296,622	10,679,299
San Diego County	5,818,800	5,572,900	6,028,400
San Francisco	5,696,780	4,975,695	5,709,838
San Jose	7,797,129	4,305,631	4,889,575
San Mateo	1,461,678	968,756	1,015,306
San Mateo County	1,954,164	1,718,642	4,508,782
Santa Ana	3,145,577	2,422,652	2,391,618
Santa Monica	1,283,769	2,553,992	1,648,950
Stockton	1,024,575	957,918	3,169,289
Sunnyvale	966,160	1,548,836	1,661,875
Torrance	899,159	777,332	3,023,718
West Covina	1,515,101	415,010	1,419,909
TOTAL	$196,637,219	$155,928,329	$198,511,045

OREGON	May 1958	Apr. 1958	May 1957
Albany	$ 167,100	$ 176,700	$ 177,800
Astoria	49,188	58,768	54,585
Baker	118,550	203,325	40,890
Bend	92,098	60,175	258,100
Coos Bay	24,010	90,325	30,190
Corvallis	230,670	223,850	862,502
Eugene	937,297	852,400	351,470
Grants Pass	129,255	116,560	92,150
Gresham	252,400	134,470	244,317
Hillsboro	46,377	60,945	577,650
Klamath Falls	188,561	353,750	135,075
La Grande	17,335	67,825	6,925
Lane County	1,283,239	822,051	740,450
Medford	287,160	1,012,554	450,125
Multnomah County	2,721,095	2,303,150	4,124,660
North Bend	34,580	33,910	81,208
Oregon City	5,780	33,700	15,845
Pendleton	426,200	165,045	108,517
Portland	7,916,495	26,079,260	2,803,115
Roseburg	135,886	123,385	57,922
Salem	323,670	904,991	444,558
Springfield	81,970	78,896	201,665
The Dalles	155,051	89,693	43,350
TOTAL	$ 15,623,967	$ 34,045,728	$ 11,903,018

WASHINGTON	May 1958	Apr. 1958	May 1957
Aberdeen	$ 71,371	$ 86,026	$ 208,500
Anacortes	73,695	68,450	28,991
Auburn	140,200	6,175	216,500
Bellingham	239,483	245,520	331,073
Bremerton	171,000	95,600	349,196
Centralia	68,295	30,805	65,304
Chehalis	40,266	13,451	81,670
Clarkston	13,324	119,060	10,660
Ellensburg	23,204	13,360	35,778
Ephrata	22,818	17,830	19,613
Everett	601,759	116,148	477,654
Kelso	109,000	37,600	17,200
Kennewick	156,580	198,935	306,320
King County	9,070,290	7,935,745	6,277,560
Kirkland	80,600	101,400	75,200
Longview	304,716	383,542	244,884
Moses Lake	13,410	148,838	70,649
Olympia	330,307	198,142	196,778
Pasco	172,725	62,685	51,583
Pierce County	2,257,687	1,838,995	984,609
Port Angeles	51,650	54,140	104,668
Puyallup	61,200	90,550	124,900
Ritzville	33,600	2,150	NIL
Seattle	8,756,062	8,005,713	6,897,879
Shelton	17,600	12,750	208,177
Spokane	3,533,915	1,697,807	2,648,696
Spokane County	2,513,043	1,766,662	1,378,547
Sumner	110,318	31,900	60,150
Tacoma	1,376,858	1,139,747	2,138,323
Vancouver	388,236	628,936	1,585,743
Walla Walla	164,760	99,135	271,805
Wenatchee	148,929	24,360	416,822
Yakima	798,284	331,370	765,503
TOTAL	$ 31,915,187	$ 25,603,527	$ 26,643,472

MONTANA	May 1958	Apr. 1958	May 1957
Billings	$ 382,200	$ 280,500	$ 252,000
Bozeman	201,600	150,500	132,000
Glasgow	199,500	332,174	59,315
Glasgow	199,500	332,174	59,315
Glendive	39,770	60,500	37,770
Great Falls	1,464,426	951,213	449,217
Helena	241,120	997,365	272,885
Kalispell	42,180	66,010	41,558
Lewistown	76,900	19,200	18,000
Livingston	27,175	98,800	280,250
Miles City	119,153	67,872	37,500
Missoula	186,400	153,200	64,319
TOTAL	$ 3,195,824	$ 3,227,284	$ 2,171,468

IDAHO	May 1958	Apr. 1958	May 1957
Boise	$ 287,974	$ 406,251	$ 500,527
Caldwell	79,000	35,820	186,990
Coeur d'Alene	46,200	253,950	187,330
Idaho Falls	626,390	1,861,000	578,445
Jerome	24,143	23,975	1,020
Lewiston	414,933	192,390	185,618
Nampa	225,787	112,350	408,050
Payette	22,450	30,525	225
Pocatello	233,644	226,568	316,730
Sandpoint	18,100	62,250	23,050
St. Maries	1,200	15,100	29,600
Twin Falls	104,295	233,300	189,550
TOTAL	$ 2,084,116	$ 3,453,479	$ 2,607,140
GRAND TOTAL	$249,456,313	$222,258,347	$241,836,143



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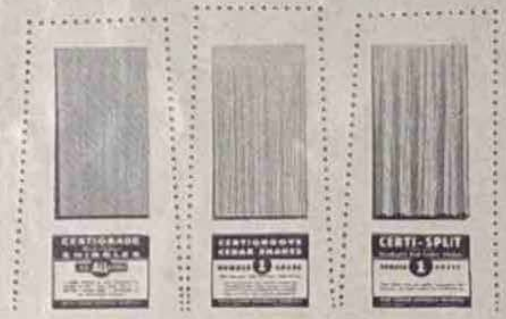


THE BUILDING MONTH: BRIEFS

• Plans for a U. S. consular building in Japan will be completed by San Francisco architects George T. Rockrise, Harvey Parke Clark and John G. Beuttler. The structure will "express sympathy with traditional Japanese architecture" and will be located in Fukuoka in southern Japan. Typhoon- and earthquake-proof, the building will use local materials and Japanese artisans, with gardens designed by San Francisco landscape architect Lawrence Halprin.

• On-campus construction of a neuro-psychiatric hospital at UCLA has won the approval of the board of regents. The proposed $9 million project, scheduled to begin in August, has been referred to as a "dangerous experiment" by those who oppose its location on the campus.

• Copies of a report entitled "Disposal of Waste Materials Incidental to the Clearance and Development of Land for Subdivision or Building Purposes" may be obtained by writing to the Bay Area Pollution Control District, 1480 Mission St., San Francisco 1, Calif. It was prepared as a means of assisting the community in transition problems following enactment of a regulation controlling (and largely eliminating) open burning in the six counties of the district.

• A three-day celebration in Seattle last month commemorated the establishment of the College of Architecture and Urban Planning at the University of Washington (July 1957). Los Angeles architect Welton Becket, an alumnus, was principal speaker at the student awards banquet.

• A pilgrimage and exhibits of the work of Bernard Ralph Maybeck were held May 24-25 in San Francisco, Berkeley and Marin County in the memory of an architect "who inspired the architectural developments of an entire region." Maybeck died in October 1957 at the age of 95.

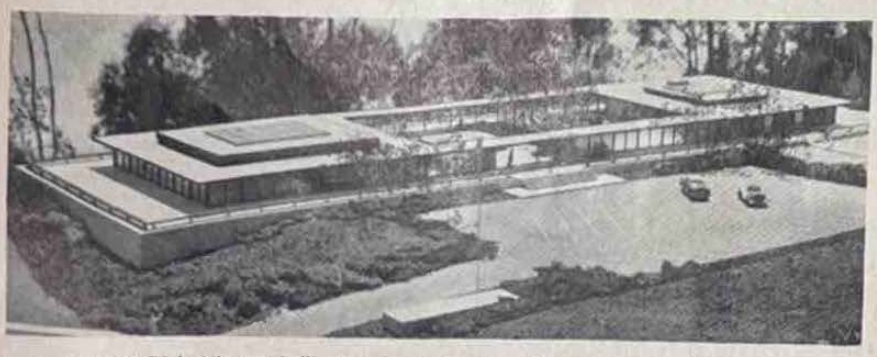
• General Electric is introducing its company's "Operation Upturn" program in the West to key managers in Los Angeles, San Francisco, Portland and Seattle. The program, says C. C. Walker, western region vice president, "is to create jobs and build sales in 1958 by bringing extra values and renewed confidences to customers."

California firm designs Canadian Consulate

The Canadian Consulate, latest to be sponsored by the State Department's Office of Foreign Buildings, has been designed by Thornton Ladd & Associates of Pasadena as a pavilion-like office building and residence. The project is linked together by a series of landscaped gardens and raised above the level of the site on an elevated "podium" of off-white pebbled concrete.

The buildings themselves, rectangular in form, alternate steel columns with panels of clear and translucent glass. Both structures and the gardens are surmounted by a single roofed portico. White, black and burnt apricot are the prevailing colors and the buildings have been oriented to take advantage of the view of the American Falls on one side and Queen Victoria Park on the other.

Ladd, who at 34 is the youngest architect selected by the State Department to design a foreign building, says the consulate represents an attempt "to infuse the spirit of California hospitality into the monumental architecture of our government. Without compromising the dignity of a great power we have tried to convey the warmth of a good neighbor."



U. S. CONSULATE in Niagara Falls, Canada, designed by Thornton Ladd & Associates.

• Three Los Angeles city school bond proposals totaling $158 million and covering elementary, high school and junior college facilities won approval by voters earlier this month. The jail bond issue amounting to $30.3 million went down to defeat, while another, authorizing $12.4 million for new police stations throughout the city, was barely under the needed two-thirds majority as PA&B went to press.

• Portland voters in the May primary election approved spending more than $9 million for urban renewal, fire system improvements and school construction. Defeated was a measure to move the strife-torn Exposition-Recreation Center from the Broadway Steel Bridge site to the Delta Park site. Considerable money has already been spent on preliminary work and bids will be called soon on construction of the center.

• In a special report the Seattle-King County Municipal League has urged that an outside planning consultant be employed to review the organization, structure, practices and procedures of the King County Planning Commission and its staff. League chairman John D. Ehrlichman says that an investigation uncovered "a veritable rat's nest" in the planning agency. The report was triggered by the resignation of John J. Swan as county planning director. The Washington State Chapter, AIA, has suggested that the 12 commissioners do likewise.

• The Association of Women in Architecture will hold its national convention June 30-July 2 in Los Angeles at the Town House Hotel, with industrial designer Greta Grossman of Beverly Hills as chairman. National officers assisting her include architects Jean Driskel, Olive Chadeayne, Lucille Raport and Dorothy Harrison from the Los Angeles area.

• Steel production probably will get back on the upgrade in the latter part of this year and gain increased momentum during 1959, Max D. Howell, executive vice president of the American Iron and Steel Institute, predicted at the National Junior Achievement banquet last month.

• The U. S. nuclear reactor safety exhibit at the Second International Conference on Peaceful Uses of Atomic Energy in Geneva September 1-13 will be designed and operated by Holmes & Narver, Inc., Los Angeles engineering and construction firm.

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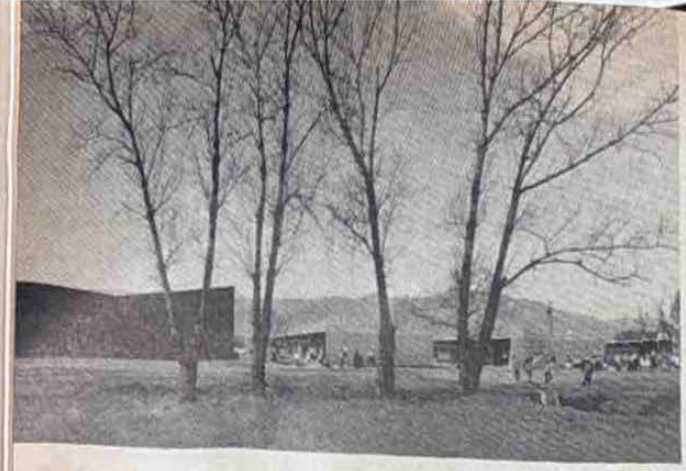
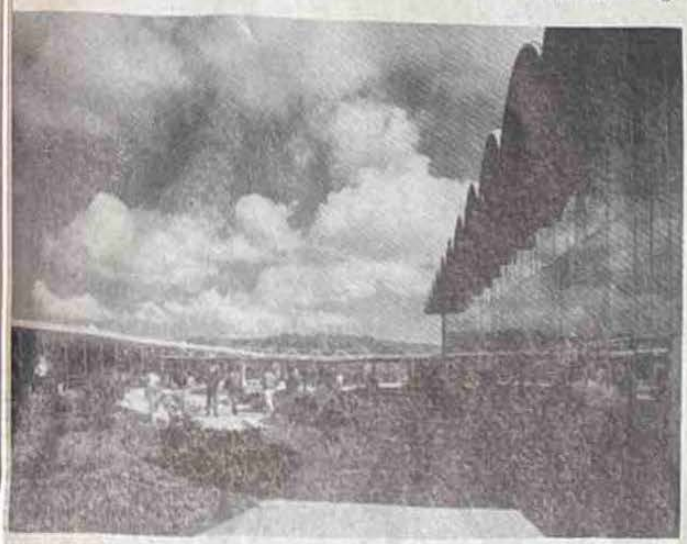
Nine West Coast buildin



Rondal Partridge

1



Rondal Partridge

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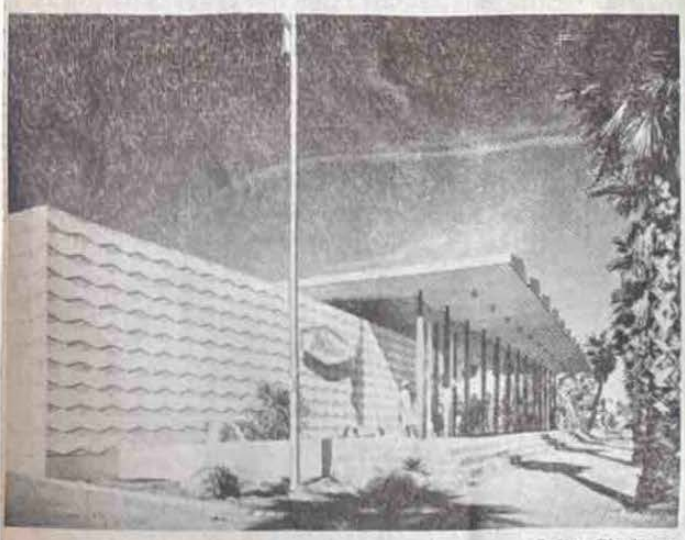
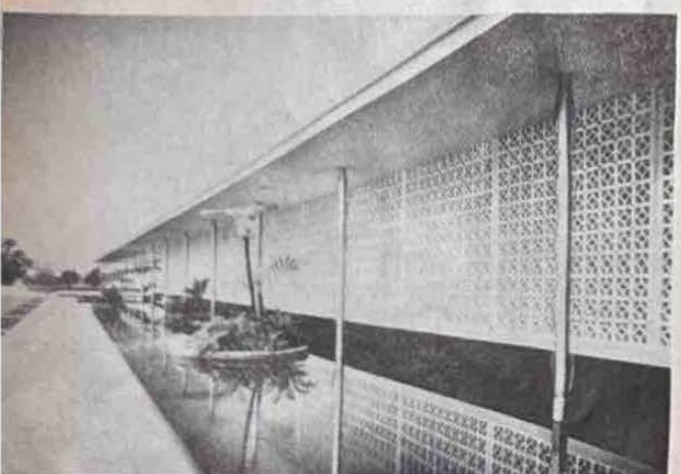


Julius Shulman

3



4

First Honor Awards

1. Elementary School, Sonoma, Calif.: Mario J. Ciampi, architect.
2. Westmoor High School, Daly City, Calif.: Mario J. Ciampi, architect.
3. Robinson's Specialty Shop, Palm Spring, Calif. (PA&S, March '58): Pereira & Luckman, architects.
4. Pharmaceutical Plant Headquarters for The Stuart Co., Pasadena, Calif.: Edward D. Stone, architect.
5. Home Office Building for Connecticut General Life Insurance Co., Bloomfield, Conn.: Skidmore, Owings & Merrill, architects.

In presenting four First Honor Awards and five Awards of Merit to West Coast buildings out of a total of 14 winners in the American Institute of Architects' 1958 competition for outstanding architecture, the jury reported that it regretted the uneven representation from the different sections of the country. Eight of the projects are located in California and one in Washington. Remaining five are found in Louisiana (two), Florida, New York and Brussels.

San Francisco architect Mario J. Ciampi heads this year's list, winning two top honors with schools in the Bay area. Los Angeles architects Pereira & Luckman have also received two citations—a First Honor Award and an Award of Merit.

Prof. Jean Labatut, director of graduate studies at Princeton University's School of Architecture, was chairman of the all-architect jury: Welton Becket, Los Angeles; Igor B. Polevitzky, Miami; Frederick James MacKie, Houston; and John Gaw Meem, Santa Fe. The jurors showed concern because there were not more examples of buildings, parking areas and landscape treatment expressed as an integral part of architecture in the 312 submissions. To be eligible, work must have been completed since January 1, 1953, by an registered architect practicing professionally in the U.S.

Certificates will be presented to the architects and owners during the AIA's annual convention to be held July 7-11 in Cleveland and an exhibition of the winning buildings will be shown at the Cleveland Museum of Art during that month.

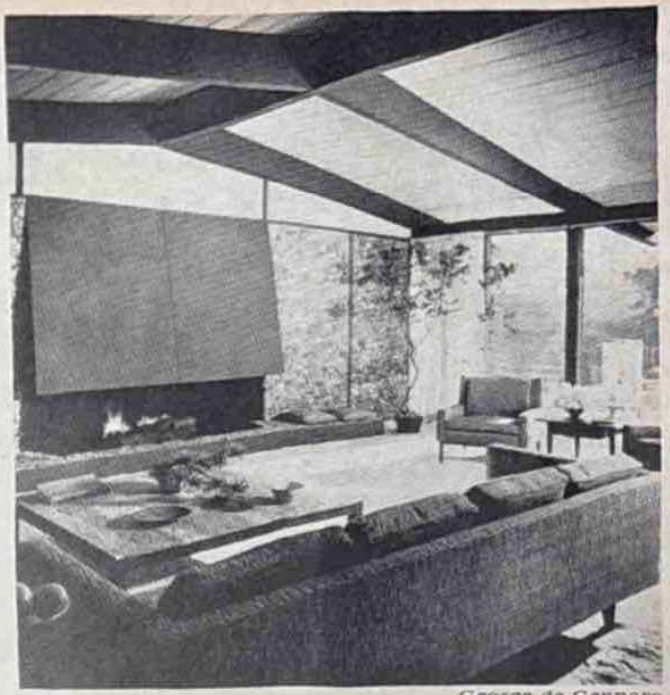
The jury explained that the five First Honor Awards were given for these reasons:

- For rare and great quality of unity in the entire work from exterior space to interior space and from the ensemble to the smallest details—for unity achieved without monotony or extravagance.
- For achieving an expression of strength without heaviness and lightness without weakness, resulting in definite elegance and refinement.
- For well-controlled physical and psychological scale leading to meaning and character corresponding to the particular program.
- For achieving aesthetic quality by means of the structural elements becoming pleasing and decorative.
- For exploring further the inexhaustible field of architectural composition by showing originality and inventiveness.

cited in AIA design competition

Awards of Merit

1. Neil Lakenan Residence, Beverly Hills, Calif.: Richard Dorman & Associates, architects, and Dan Morganelli, associate architect.
2. Architect's Studio, Pasadena, Calif.: Thornton Ladd, architect.
3. Bellevue Office, Washington State Bank, Bellevue, Wash. (PA&B, Aug. '57): Mithun & Nesland, architects, and Ridenour & Cochran, associate architects.
4. Beckman/Helipot Corp. Plant, Newport Beach, Calif.: Pereira & Luckman, architects.
5. Union Service Center, Los Angeles: Smith & Williams, architects.
6. United States Pavilion, Universal and International Exposition, Brussels (PA&B, March '58): Edward D. Stone, architect.
7. Warm Mineral Springs Inn, Venice, Fla.: Victor A. Lundy, architect.
8. Cafeteria Building, Southeastern Louisiana College, Hammond, La.: Desmond & Davis, architects.
9. Immaculate Conception Church, Marrero, La.: Curtis & Davis and Associates, architects.

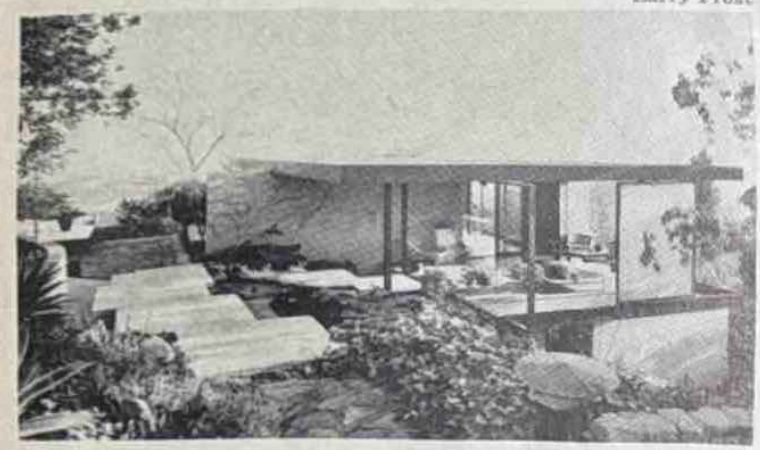


1

George de Gennaro

2

Larry Frost



3

Chas. R. Pearson

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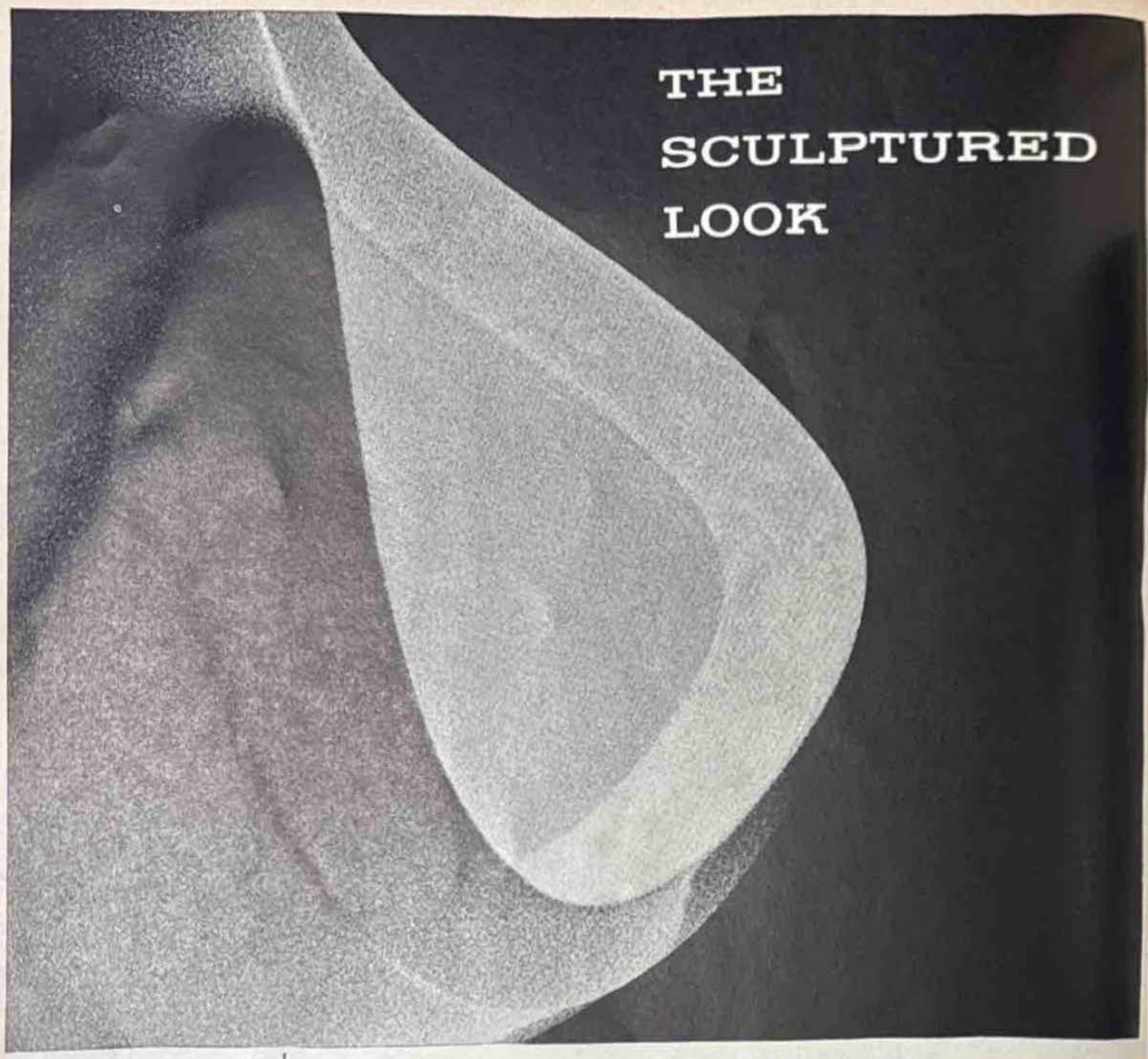
Julius Shulman

5

Julius Shulman



B3461—MILTON: 24" x 20" vitreous china lavatory with back, 8" centers.

B6911—LAWTON: Vitreous china wall hung washout urinal; extended shields.

B4012—MERCURY: Vitreous china drinking fountain with glass filler.

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MARQUESS & MARQUESS
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WALLACE RUFF
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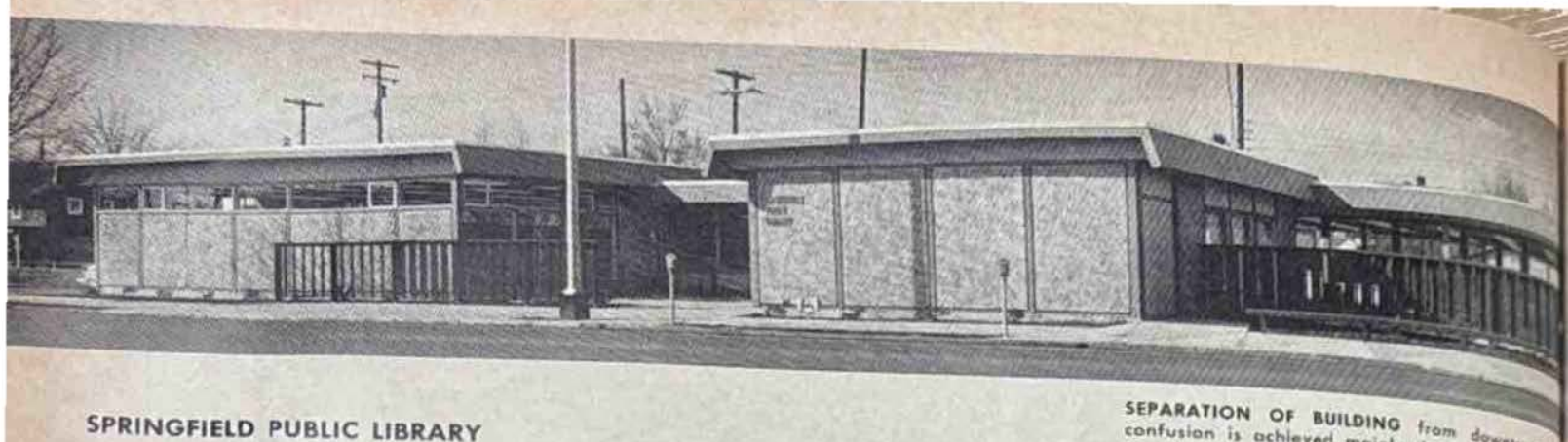


SEPARATION OF BUILDING from downtown confusion is achieved mainly through enclosed courtyards and extensive landscaping.

SPRINGFIELD PUBLIC LIBRARY

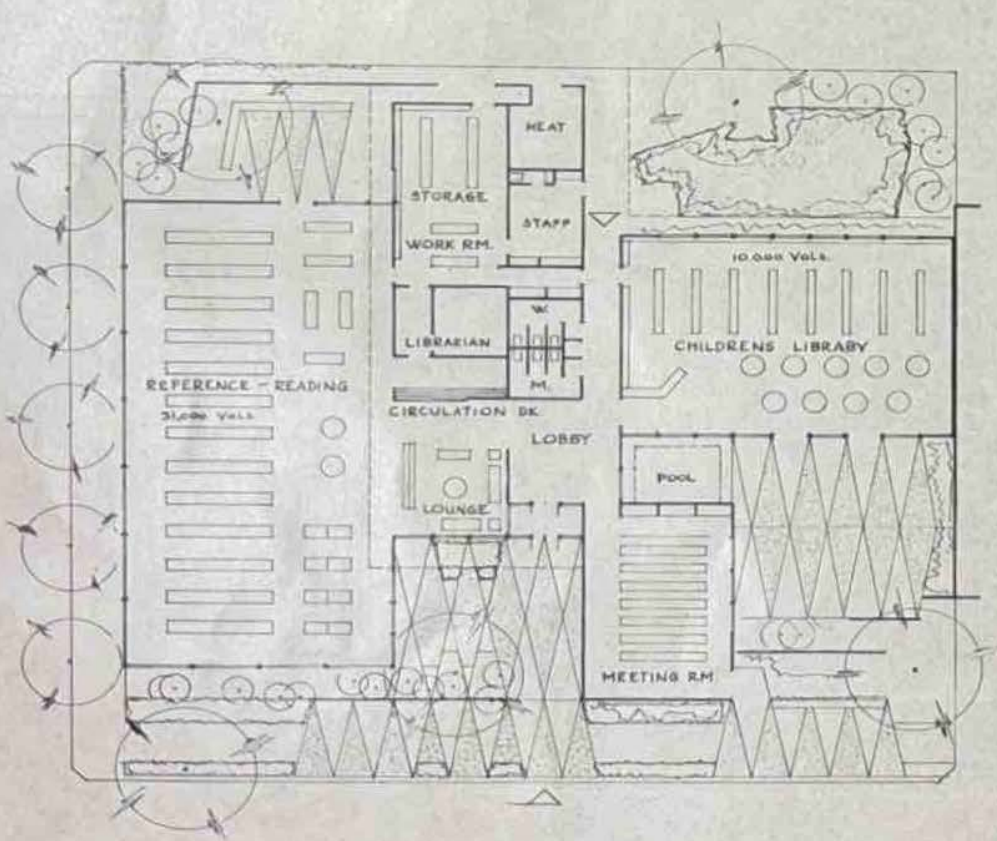
THE PROGRAM called for a site adjacent to the retail center of the city, since most of the patrons will drive to the library as part of a shopping trip. To separate the structure as much as possible from the downtown environment, the architects made extensive use of courtyards and glass, except in those elements which face the street. Another site problem, that of masking a 30x80-ft. wall of the neighboring fire station, was solved by designing a long overhang in front of the children's library, which also cuts the sun out of that room.

From the central lobby one can easily orient himself to the various segments of the library. It houses 49,310 volumes and has an initial 10,000 sq. ft., with space for expansion to 12,000 sq. ft. (This is less than the American Library Association standard, considered excessive in view of the character of the community, the size of the present book stock and the proximity of the University of Oregon library.) Seating capacity is 175: main library, 60; children's library, 40; lounge, 15; meeting room, 60.

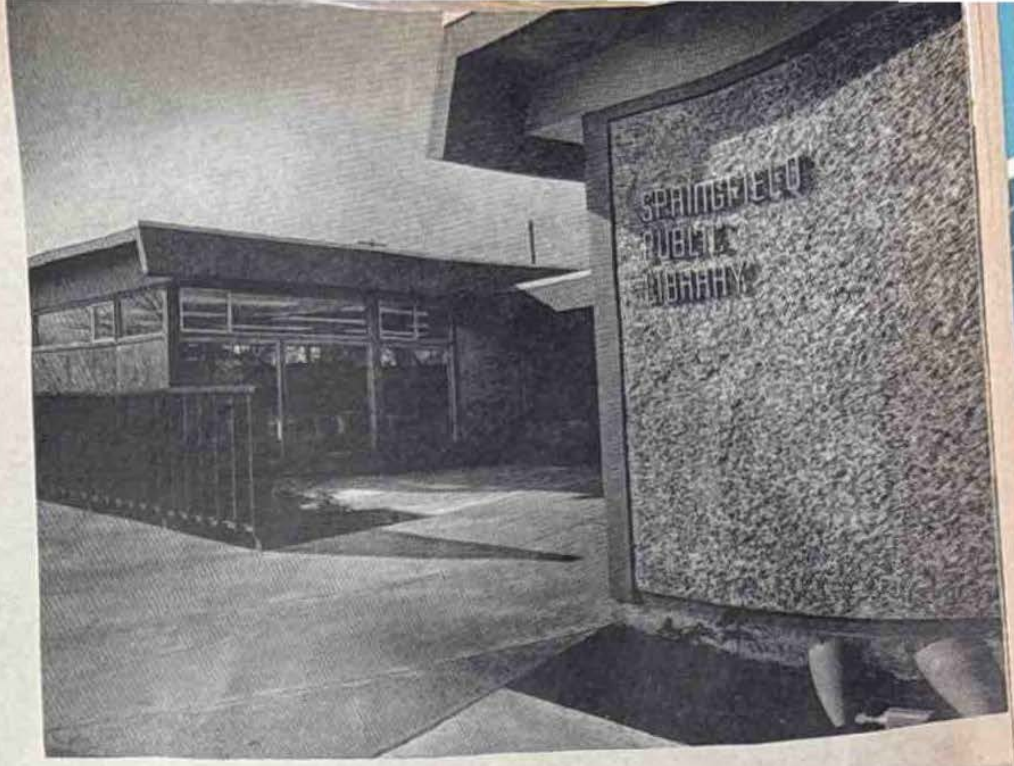
A visual highlight is the "Mother and Child" sculpture executed in Deschutes River stone by Mark Sponenburgh. The piece, which can be viewed from almost any point in the building, sits in a 4-in. pool of water into which falls one of the principal roof drains. The pleasantness of the sound of falling water—even in rainy Oregon—draws frequent comments from library users.

Constructed of exposed aggregate concrete with steel trim, the structure has steel columns supporting glued-laminated roof framing and decking, aluminum windows and doors. Interior finish for the most part is plaster. Cabinet work is either Douglas fir with birch trim or solid birch.

In commenting that circulation this spring increased more than 50% over last year, the architects explain: "A large share of credit for the project, in sound programming and in a clear explanation to the citizens, can be attributed to the progressive city administration. The mayor, city manager, city council, library board and staff consistently collaborated in the decisions which have made this building a community success—a true symbol of the Springfield spirit."



SCREEN FENCE for courtyard has battens spaced at far end for use as bicycle rack. High windows in main reading and reference room are heat-absorbing plate glass to reduce glare; lower windows provide different courtyard vista from each room.



OUTLINE SPECIFICATIONS

Structure: steel fire-protected columns supporting Douglas fir glued-laminated roof framing and decking.

Exterior Walls: exposed aggregate concrete; steel trim.

Fascia Surfacing: cement-asbestos board (Transite) sealed with metal angles and battens and enameled.

Windows: aluminum sash (Soule') with heat-absorbing glass in main reading and reference room.

Doors: aluminum (Acme).

Floor Surfacing: vinyl (Robbins); ceramic tile in toilet rooms.

Interior Finish: plaster.

Ceilings: incombustible tile (Armstrong) set in metal grid.

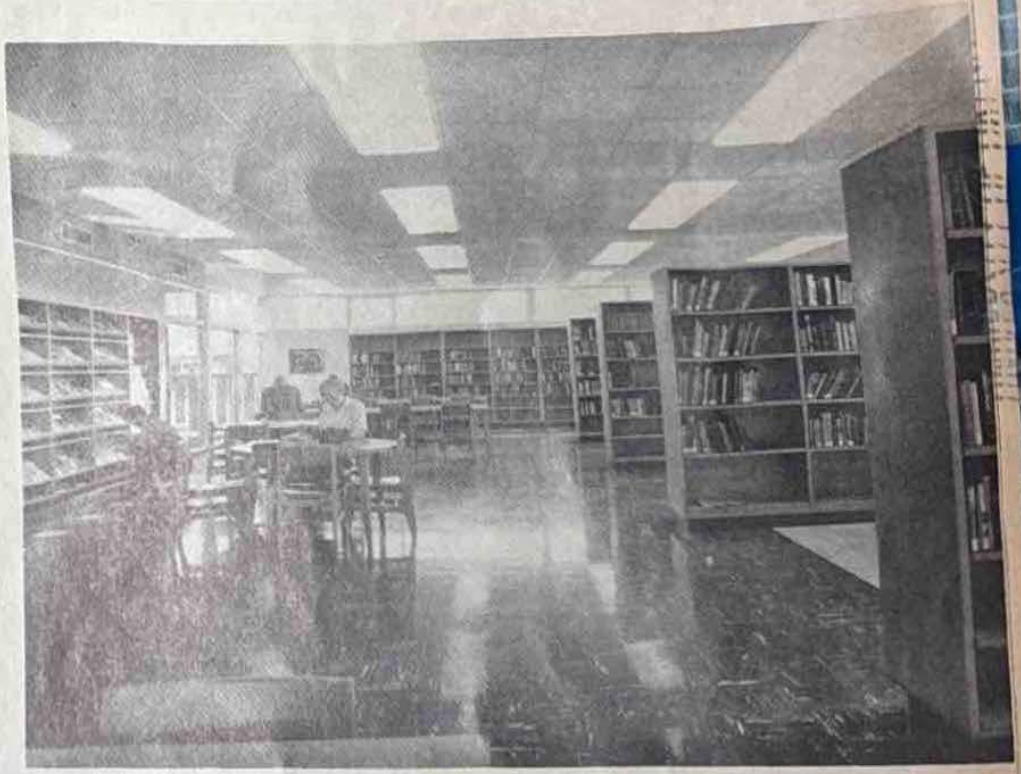
Cabinet Work: Douglas fir with birch trim; solid birch.

Heating: electrically heated hot water pumped through floor slabs and volume heater; separate heating and ventilation system for meeting room.

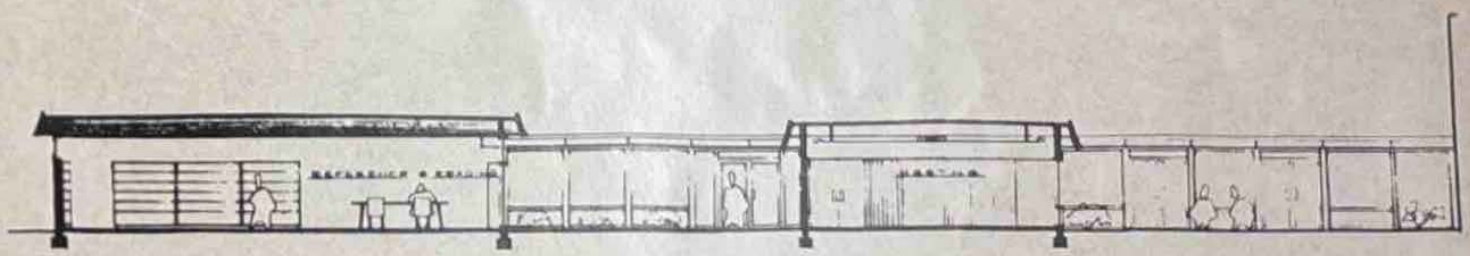
Total Area: 10,000 sq. ft.

Total Cost: $150,000, including site, landscaping, furnishings and fees.

Date of Completion: January 1958.



DRAMATIZATION of book displays is key element both in floor plan organization and in interior color work. Free-standing cabinets are now 12 ft. o.c., will be moved to 6 ft. o.c. as library expands.

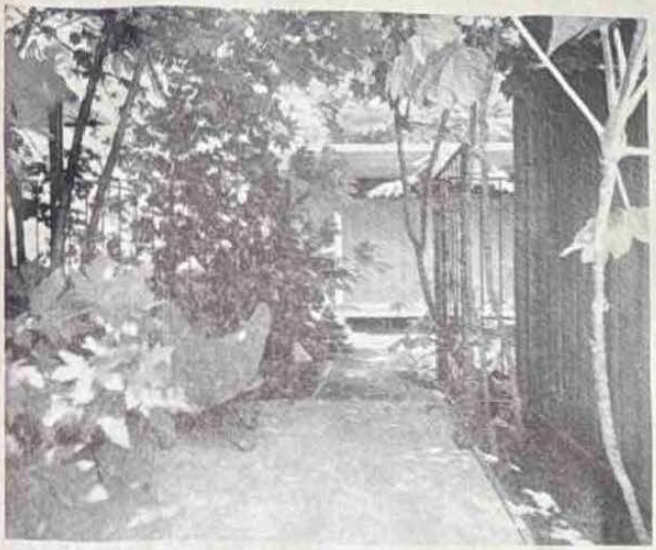


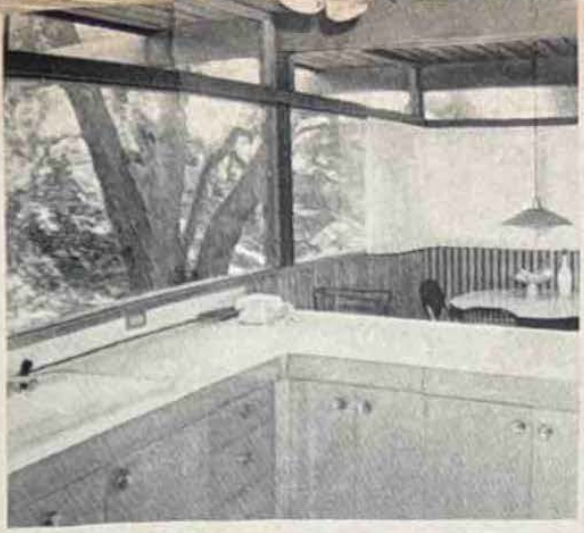
Richard Leitch Residence
Altadena, California

RICHARD LEITCH
Architect-Builder

"SUN-TRAP" PATIO (below) is sheltered from prevailing breeze, unshaded by oaks. Central courtyard (right) opens off entry via raised deck and off lanai at right. Shoji screens permit garden room to become part of terrace for summer entertaining. Boulder near center of site serves as focal point.

Margaret Stovall photos



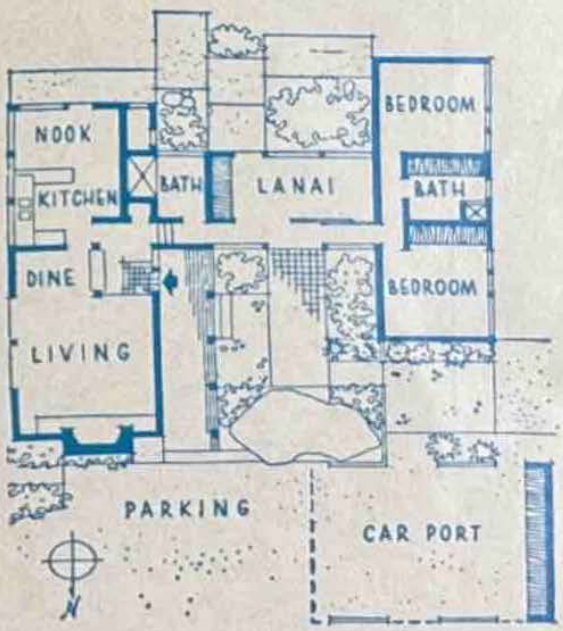


KITCHEN-BREAKFAST ROOM has white plastic surfaced countertops, natural woods, turquoise and white color accents. China cabinet in dining room acts as visual break from entry; quarry tile helps reduce maintenance.

THE ARCHITECT has translated a steeply sloping site into an award-winning garden house for his family of three. Profusely covered with large oak trees and studded with river-washed boulders, the 90x144-ft. lot drops 15 ft. below the street to the living room terrace level, then slopes another 3 ft. to the rear patio level. Living-dining room and kitchen-breakfast room are on the upper level relating to the east patio. Lanai-den, stepped down 20 in., opens north to the sunny entrance courtyard and to the south to a shaded patio. Master bedroom and the son's room open to the west to the pool. Rear bath, which is also off the pool, doubles as a dressing room.

The house bespeaks informality and is simply constructed entirely of wood—redwood exterior, redwood and plywood interior—on a 6-ft. module laminated post and beam system with bolted connections, t&g roof decking and perimeter-heated slab floors. Wood siding is stained gray-green; beams, posts and trim are a darker value of the same color.

Total integration of house and garden



OUTLINE SPECIFICATIONS

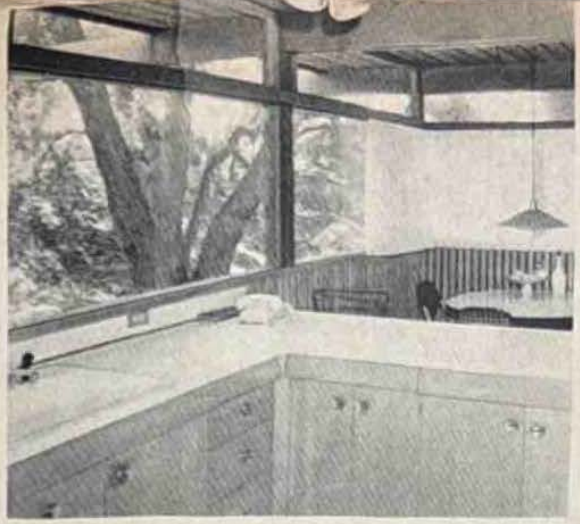
Structure: 6-ft. module laminated post and beam with bolted connections; t&g roof decking.
Exterior Finish: stained redwood.
Roof Surfacing: composition with fiberglass insulation.
Windows: stopped in wood.
Doors: wood french.
Floor Surfacing: asphalt tile and quarry tile (Gladding, McBean); carpeting.
Interior Finish: redwood; Douglas fir plywood.
Ceilings: exposed t&g decking.
Heating: perimeter (Payne furnace) in slab floors.
Total Area: 1,400 sq. ft.
Cost per Square foot: $12.
Date of Completion: 1956.

Richard Leitch Residence
Altadena, California

RICHARD LEITCH
Architect-Builder

"SUN-TRAP" PATIO (below) is sheltered from prevailing breeze, unshaded by oaks. Central courtyard (right) opens off entry via raised deck and off lanai at right. Shoji screens permit garden room to become part of terrace for summer entertaining. Boulder near center of site serves as focal point.

Margaret Stovall photos



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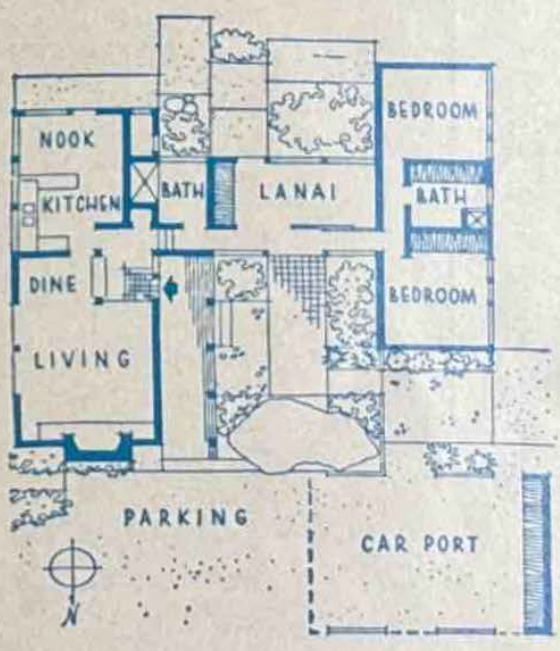

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Total Area: 1,400 sq. ft.
Cost per Square foot: $12.
Date of Completion: 1956.

LANDSCAPING will help to screen surrounding industrial yard; plum trees will provide shade.

Low-cost office structure built in 45 days

Contractors' Building
Oakland, California

•

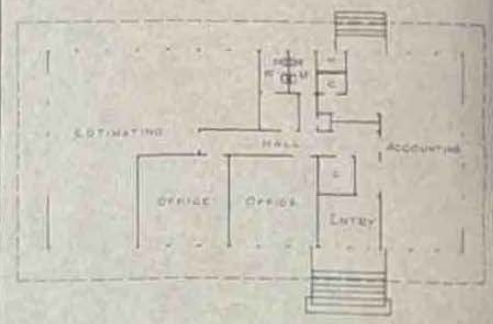
WURSTER, BERNARDI & EMMONS
Architects

MacDONALD, YOUNG & NELSON, INC.
General Contractors

WHEN THE CLIENT decided to move its headquarters from downtown San Francisco into an easy-to-park area, the location was an obvious choice: the five-acre site of the corporation yard which the firm has maintained for some time in the industrial section of Oakland. The building was designed to be expandable and was completed in less than two months.

The contractor-owner had on hand large timbers and plywood panels which allowed the structure to be built on 12x12 girders above concrete piers, facilitating easy future moving. Exterior is covered with panels of plywood or glass, all set in frames made up of one uniform shape, with redwood stops. Ceiling joists extend out to form overhangs and are fanned at the corners, contributing to the pavilion-like appearance of the building. Panels and soffits are tan; all trim is a dark green-black; doors are a bright red. Finished with gypsum wallboard and acoustical tile ceilings, the interior is arranged to provide maximum flexibility of space, with hallway areas virtually eliminated.

AMPLE PARKING SPACE is provided for all personnel of firm.



OUTLINE SPECIFICATIONS

Structure: frame, built on 12x12 girders above concrete piers; plywood roof.
Exterior Walls: plywood or glass panels, set in frames with redwood stops.
Roof Surfacing: tar and gravel.
Doors: wood slab.
Interior Finish: gypsum wallboard (Sheetrock)—United States Gypsum Co.
Ceilings: acoustical tile.
Floor Surfacing: asphalt tile.
Heating: gas fired, warm air.
Total Area: 2,300 sq. ft.
Date of Completion: February 1958.

OUTLINE SPECIFICATIONS

Structure: steel posts on reinforced concrete footings supporting glued-laminated beams 16 ft. o.c.; stressed-skin plywood panel roof acting as ceiling.

Exterior Walls: aluminum-framed panels of asbestos board or glass; concrete block; norman brick.

Roof Surfacing: built-up.

Windows: aluminum (Tecler).

Doors: **exterior:** aluminum (Tecler); **interior:** birch and walnut.

Floor Finish: vinyl asbestos over concrete slab in offices, display rooms.

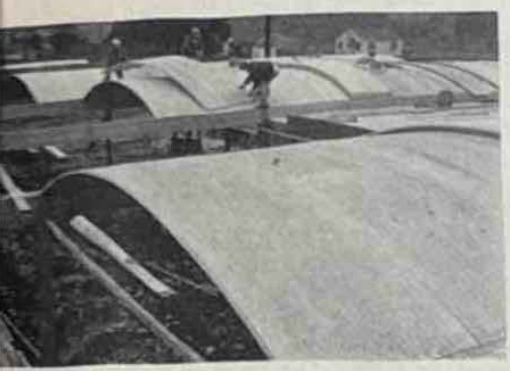
Interior Walls: removable, drywall partitions; walnut plywood paneling.

Heating: gas fired, forced warm air ducts under slab in display and office areas; unit heaters in warehouse.

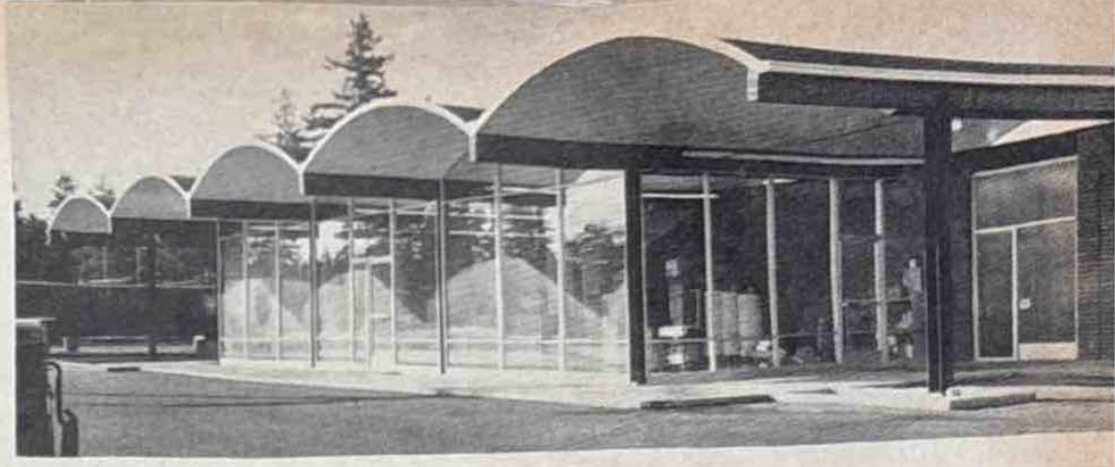
Total Area: 7,870 sq. ft.

Cost per Square Foot: $8.10.

Date of Completion: January 1958.



ARCHED SECTION is made up of 55 stressed-skin panels, each spanning 16 ft., supported on glued-laminated beams and wide flange steel posts, on reinforced concrete footings.



FIVE-BAY VAULTED ROOF and glass are used for entrance and display area; curtain walls of aluminum-framed panels of asbestos board or glass for office portions; concrete block and norman brick for rest of building.

Redi-Gas Co. Building
Tacoma, Washington

•

SWEDBERG & ANDERSON
Architects

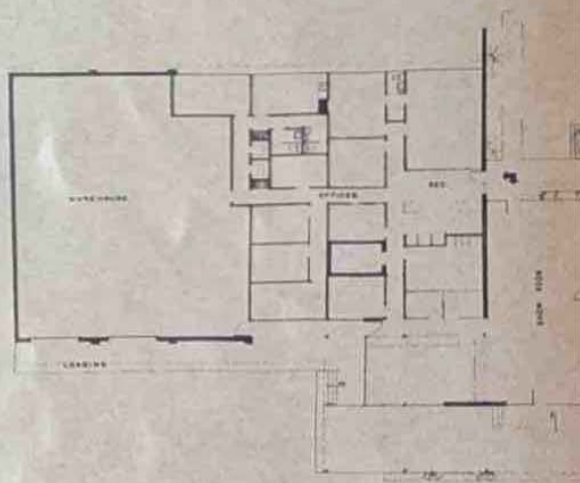
PURVIS CONSTRUCTION CO.
General Contractor

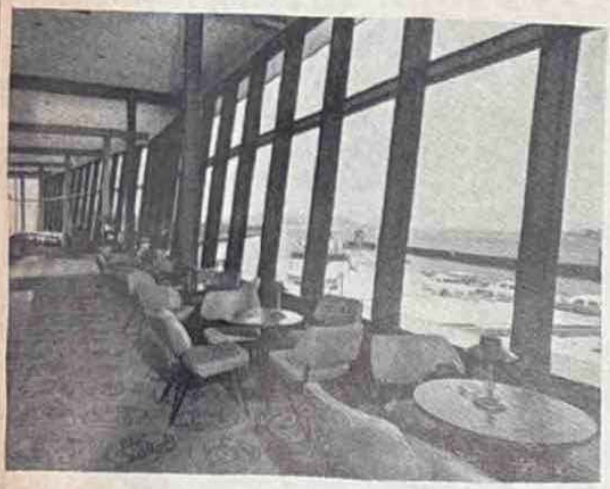
Arched panels dramatize small structure

REQUIREMENTS for a headquarters building to house a client who markets gas, appliances and equipment and has subsidiaries throughout southwestern Washington were these: an attractive display room and retail sales area, warehouse space for wholesale operations, general office space, purchasing and dispatcher's offices with truck loading and service facilities—within a tight budget and building schedule. The architect held costs to about $8 per square foot by specifying a simplified post and beam construction method and dual-purpose stressed-skin roof panels to provide both ceiling and decking in one component; and he gave distinction to the entrance and display area by employing a multiple-arch roof section.

Each flat panel (Panelbilt Systems, Inc., is fabricator) consists of 2x4 lumber framing around the perimeter, with sheets of exterior fir plywood glued to it to form top and bottom skins. Two-by-four stiffeners within the panel are 16 in. o.c. Top skins act as roof decking; the sanded surface of the bottom skins as the finished ceiling. Fiberglass insulation is built into the panel, whose edges are formed for t&g joining. Each vaulted section is composed of 11 4-ft. wide arched panels, similar in construction to the flat ones, but not as thick. Less than three days' labor was required for the entire installation, resulting in a finished deck ready for application of built-up roofing.

Interior walls are removable, drywall partitions with walnut plywood paneling in the reception and conference rooms and manager's office. Troweled-in dye and scoring add interest to the vinyl asbestos tile which covers the concrete slab floors.





Phil Palmer photo

FISHERMAN'S WHARF is site for this 1,420-sq. ft. restaurant. Steel beams spanning 40 ft. open space permit unlimited view for 185 customers in three-tiered dining area and in lower

On the waterfront

FRANCISCAN RESTAURANT, SAN FRANCISCO: To take full advantage of a sweeping view of the Bay, bridge and fishing boats, the architect specified huge angled expanses of glass and raised the floor level to second floor height. Thus the brunt of stress was placed on two relatively narrow side walls, which, like the roof and floors, are covered with fir plywood. Designed with most of its steelwork exposed, the structure rests on an 8-in. concrete mat which is seated above the water on new piling. A floating stairway, fabricated by welding channels and plate, connects the glass-enclosed entrance on the ground flo to the upper level. Redwood plankin accents both interior and exterior. Th restaurant cost $250,000, comple with fixtures and equipment. Arch tect: Hewitt C. Wells; structural en gineers: Gould & Degenkolb; gener contractor: Charles O. Jones Co.

In a tract development

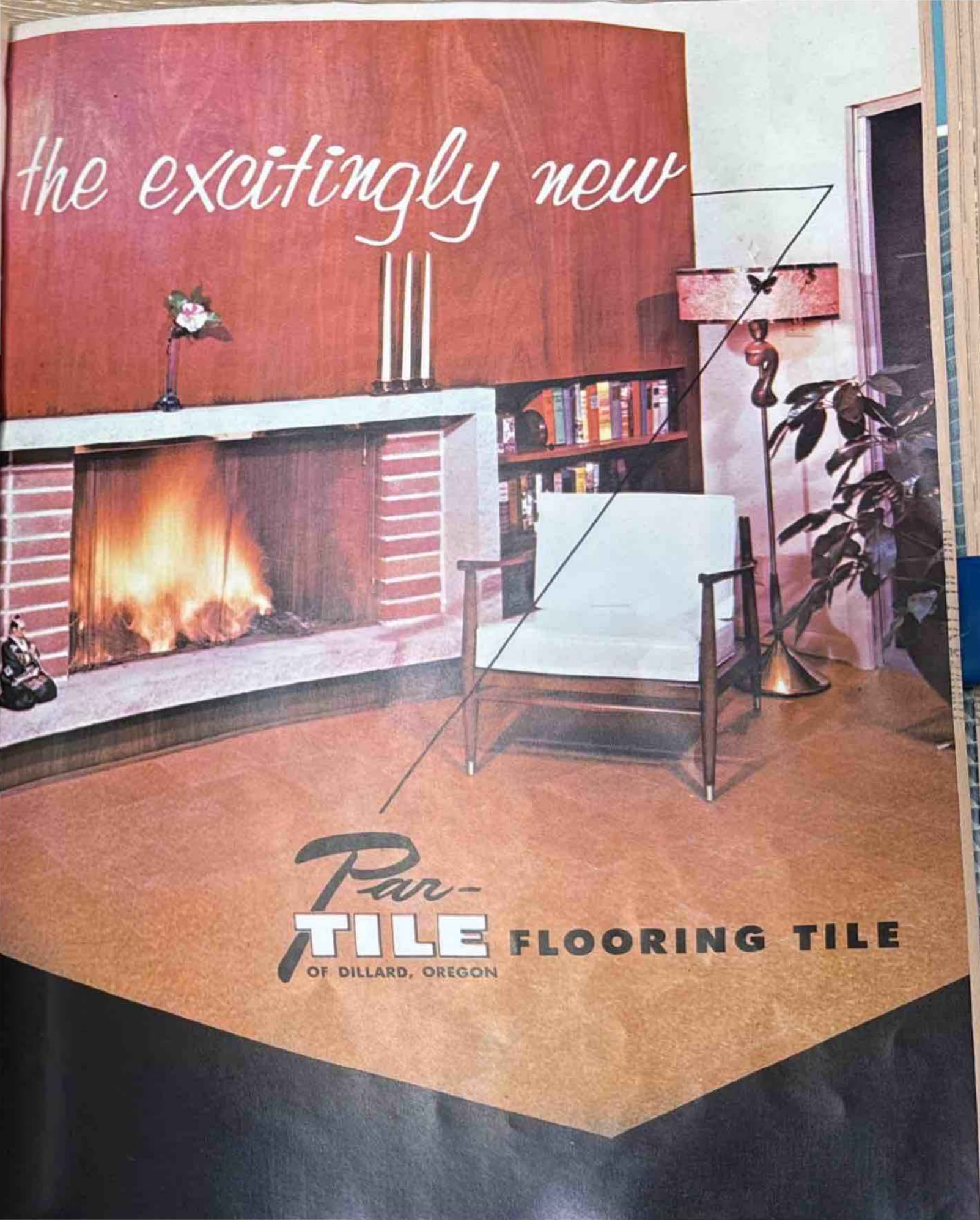
BUILDER HOUSE, ANAHEIM, CALIF.: As a starting place for a 400-home development (Sherwood Forest), it was decided that three basic plans would meet the needs of prospective buyers, but that such an arrangement would be acceptabl only if every possible advantage wer taken of variety to avoid the usua "tract look." To achieve this end, a number of variations were used:

- One-half of the houses have con crete slab floors; the other half, wood
- All plans have alternate garage locations, many extending the visual size of the house.
- Different roof pitches and roof materials were applied to the basic plans.
- Both flat and sloping ceilings were used.
- Three types of masonry units were used in fireplaces.
- Careful site planning was com bined with variation in front setbacks.

A large family room combined with breakfast bar is separated from the living room by the kitchen, which works equally well with either area. A two-terrace living room—one with shade, one with sun—doubles the out door living possibilities. Architects: Smith & Williams; builder: George D. Buccola.

Julius Shulman

ENTRANCE COURT leads directly to front door, takes on new meaning as built-in garden. Ridge of gables is over court and roof above is merely a framework, allowing light and air to penetrate.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FLOORING TILE
OF DILLARD, OREGON

Par-TILE
OF DILLARD, OREGON

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beauty, Par-TILE is most pra
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- Lifetime beauty
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- Pre-finished or unfinished
- Easy to maintain
- Non-fading
- Spot and stain resistant
- Conforms to all decor
- Fire resistant
- Guaranteed satisfaction

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Par-TILE. Furniture rests an
will not dent under weight . . .

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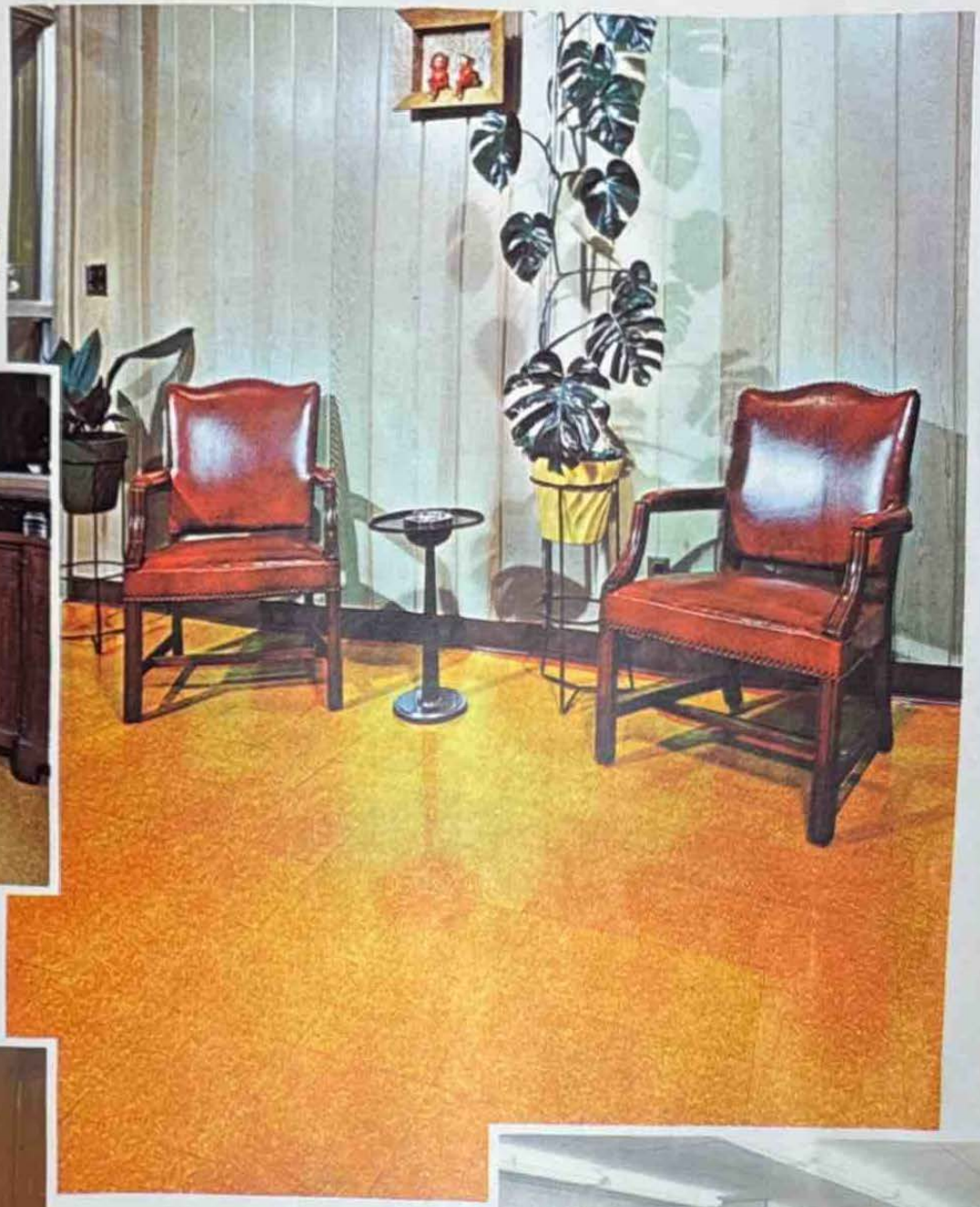
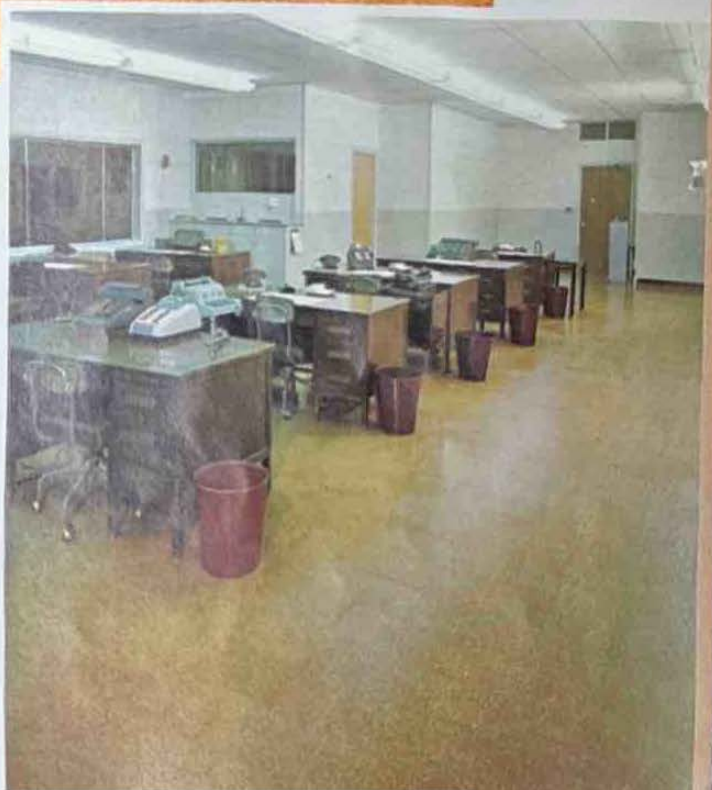
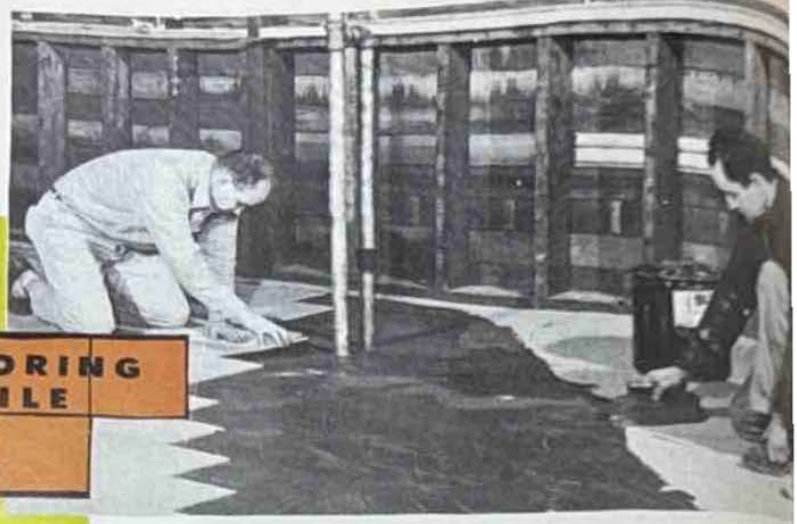


Lifetime wear . . . lifetime beauty . . . Par-TILE is tough and exceptionally desirable for floors that carry heavy foot traffic. Resists scratches and mars usually caused by dirt and grit. Needs so little maintenance for a lifetime of beauty.

Luxurious . . . conforms to all decor . . . Par-TILE's rich color and texture compliment any decor. Now being used in homes, hospitals, churches, schools, hotels, stores, offices, institutions and commercial buildings of many types where long wear, comfort under foot and ease of maintenance are important.



Par-TILE FLOORING TILE OF DILLARD, OREGON



It took four men only two days to lay over 9,000 square feet of Par-TILE in this modern dental clinic.

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Nothing new to learn . . . Par-TILE flooring tile is installed in the same easy manner as any other tile . . . You simply lay Par-TILE over a prescribed mastic. Easy to work with average tools. Can be installed over on grade or suspended concrete or wood sub-floors as well as other normal floors.

Par-TILE is guaranteed to be free from defect in material and workmanship. Scientifically manufactured to meet our specifications.

Par-TILE is available in varied thicknesses, from one-quarter inch to one inch. Other thicknesses available for special industrial uses, engineered to specifications.

EASY TO MAINTAIN

Par-TILE, a miracle of modern science, gives both luxurious beauty and lifetime durability to any floor . . . whether in your party-room, living room, kitchen or commercial building. Satisfaction guaranteed. Easy to cleanse and keep clean with ordinary waxing and polishing and occasional damp mopping.

The tough surface of Par-TILE resists denting, marring or scratching . . . takes a high gloss wax finish.

Par-TILE is available in handsome pre-finished lustre or can be obtained unfinished upon order.

Par-TILE's exclusive Flexo GRID SCORING

Flexo-grid scoring gives Par-TILE the flexibility to take in uneven sub-flooring. Recommended for concrete with some evenness. Exclusive Flexo-grid scoring available only with Par-TILE (application for patent being presented).

Another plus: Flexo-grid scoring creates multiple bonding surfaces, affording superior adhesive charcteristics. Par-TILE available with plain back for work on level surfaces.

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How to plan for operatorless elevator service

by CHARLES W. LERCH*

THE OPERATORLESS ELEVATOR —a wonderful device for those who push the button and ride—offers new excitement and new challenges to vertical transportation problems facing the architect. Electronic and other improvements in elevators can contribute mightily to building prestige and earning power, in addition to providing safe, fast travel for passengers.

The elevator can also do a lot for the architect if he will permit it to become a part of his early planning.

Operatorless service is more costly to buy and to install. It is more complex in operation. Mistakes in planning are more serious. These may come under the general headings of too many or too few elevators, incorrect arrangement of elevators; an elevator plant unsuited to the needs of its building.

Operatorless service alone does not guarantee perfect vertical transportation, any more than the automatic transmission on a car will end crowded traffic conditions. Operatorless elevator service is winning success in almost all types of multistory buildings; even in large hotels and hospitals, where it was long believed to be "out of the question."

The reasons are improved service and operational savings. The greater cost of the installation is more than offset by reduced (or eliminated) operators' wages and related costs. These savings range from $4,000 to $7,000 per year per car and they are enough to pay for the cost of new elevators in periods ranging from 10 to 20 years. In addition, operatorless elevator service gives your building essential advantages in prestige and profit potential.

To my knowledge, all new multistory office buildings now planned or under construction are specifying operatorless service. The early fears that passengers would be unwilling to ride alone or that balky passengers would delay service have proved groundless. Continuing research and development in supervisory control systems provides electronic equipment which is very nearly foolproof and certainly safe. The average yearly accident rate on operatorless service is estimated to be 34% less than on manually controlled cars.

The operatorless elevator will call for special attention in building design and construction: hoistway width, pit depth and overhead clearance.

The number of elevators, the type of control, location, shape size and speed are all important factors in building design. They are primary factors. The arrangement of elevators affects column locations, size and location of the lobby and its relation to exits and garages attached to the building.

The supervisory control features of operatorless elevators make it almost mandatory to keep your elevators together, although this has always seemed good basic practice to me. The higher speeds generally asked for now, as well as new code requirements, make necessary the extra space overhead and in the pit.

The use of power operated, center opening doors emphasizes the need for attention to car size, hoistway width and depth. I know of one installation—this was a modernization job—where car size was decreased to permit new type doors and speed was reduced in connection with conversion to operatorless service. The result was actually worse service than the former plant had provided. The investment yielded no dividends. Most installations provide happier stories.

Early planning is essential. The sooner you can visualize the elevator plant, the more freedom you will gain for your basic design concept. This is a truism but I am amazed at how frequently it is overlooked. In most cases it is the architect himself who will then pay a heavy cost in time required for the job.

Unlike other fields in which consultants operate, there are few sources for impartial information in vertical transportation. It is a subject rarely argued in architectural journals. Perhaps this is why elevators are often taken for granted by the architect.

Planning ahead avoids taking expensive chances, saves time for the architect and his client and helps to provide a vertical transportation system which will be a valued life line to both building and reputation for years to come.

My firm serves as consultants to either the architect or owner. We work from basic design of the elevator system all the way through specifications, bids and supervision of installation to test and code approval. A sample of our approach to some of the problems and an indication of the many considerations modern elevators demand is shown in the case history (next page). Some of the questions most often asked us on operatorless service are answered below.

Q. How many manufacturers make operatorless elevators?

A. There are about 50 elevator manufacturers in the U. S. Almost all will supply operatorless service.

Q. What can we tell the client about maintenance of operatorless elevators? Won't it cost more?

A. Yes, but not to an alarming degree. Perhaps 5% more.

Q. How much supervisory or electronic control ought to be provided?

A. If your building is over 12 stories, you may need four to six patterns or arrangements to meet varying traffic conditions. If it is less than 12 stories, you can simplify. It is difficult to generalize; each building has specific needs.

Q. What about speed?

A. Speed is an important factor. It can affect the quality of service; it is certain to affect initial cost. In high-rise buildings where express and tower service elevators are to be used, speeds up to 1,000 fpm. may be desirable. Where elevators may have to make frequent stops, speed can be reduced with consequent savings and without decreasing service efficiency. If you have a building 230 ft. high, travel time from bottom to top, non-stop at 1,000 fpm. will be 14.7 seconds. If you reduce this speed to 700 fpm., you will save about $7,000 per car in cost. Your travel time will be increased to 19.6 seconds. How much are the 4.9 seconds worth to your client and his tenants?

Q. Can operatorless elevators be converted to manual operation?

A. Easily.

Q. How can an architect sell the merits and extra cost of operatorless service to a hard-to-convince client?

A. There are two basic arguments. One is presentation of costs for operators' wages, uniforms, locker space, benefits, etc. The other is simply the fact that each building

---

* President, Charles W. Lerch & Associates, consulting engineers, with offices in Chicago, Denver and San Francisco.

BUILDING need not reach skyscraper height to make use of operatorless elevators. Casper National Bank Building, Casper, Wyo., is using three to serve its eight stories and two basements. Each has 2,500-lb. capacity and 300-fpm. speed. Two escalators are also employed to handle bank traffic from ground to second floor only.

must compete with others of its type in the same area. The building without modern elevator service has an extra obstacle to overcome—an obstacle which will loom larger as operatorless elevator service becomes more universal.

Q. Aren't elevator prices of major manufacturers competitive?

A. Yes. The savings and better elevator service which can be achieved will come largely through unbiased specification and knowledge of the plant which will suit your building's present and future needs. Specification writing is a key factor in obtaining truly competitive bidding.

TENANTS in Oakland's new 18-story First Western Building will be served by six fully automatic, operatorless elevators with 3,500-lb. capacity (one car designated for service use will carry 4,500 lb.) and speed of 500 fpm. Another elevator with 3,000-lb. capacity and speed of 300 fpm. will handle needs of bank located on second and third floors of building.

Case study report

PROBLEM: To determine the quality and quantity of elevator service to be required in 24-story, western city office building.

Step 1: Quality of Service

This office building will have a diversified type of tenancy. It is a prestige building. The quality of service is measured by the average interval in seconds between elevators passing any floor and by the average time to destination. The latter is the total time required to get from the landing on one floor to the landing on another floor. This time includes door opening, car loading, door closing, travel, door opening, car unloading, door closing.

Our experience shows us that quality of elevator service in this city during heavy traffic periods such as the noon hour may be judged against these standards:

	Departure Interval (Seconds)	Time to Destination (Seconds)
Excellent	30	45
Good	35	50
Fair	40	60

Thus, our goal for this building in quality of service becomes a 30-second departure interval and a time to destination of 45 seconds, both being averages.

Step 2: Quantity of Service

This is the time required for the elevator system to handle a fixed percentage of the building population within a five-minute period during peak traffic conditions. National averages on this show basic requirements as follows:

	Average
Morning peak	11%
Noon peak	13%
Evening peak	15%

We match our national averages against figures taken in from competitive buildings in the area where our client's building is to be located. By comparison we can estimate that our building will need elevators to handle a noon peak ranging from 12 to 19% and an evening peak ranging from 13 to 21%. The average at noon is 16% (of building population) and that at evening is 17%. If we expect to provide modern elevator service we must meet these predetermined needs.

The estimate of our building population is based on density figures for this city and this type of building and the intention of the owner regarding future tenancy. We will show probable elevator handling capacity for the proposed building with occupancy ranging from 100 to 150 sq. ft. per person. We will show three possible plans for the elevators. From all this information we can make the table shown in Figure 1.

THE RECOMMENDATION: **Plan 1:** Our recommendation in this case called for using two banks of four elevators. This will meet the building needs in quality of service and in quantity. It will cost substantially less than **Plan 3,** using seven elevators to all floors, and somewhat more than **Plan 2,** using six elevators. One of our two banks will service floors 1 to 14 only. Thus this plan will increase our client's rental income possibilities because floors above 14 will need space for four elevators only.

It is important to note that this recommendation achieves initial and future savings without lessening service efficiency now or in the years to come. The case study excerpted above is of course but a small step in the complete elevator plan prepared for this building. We cite it here simply to demonstrate the many factors which must have full and early consideration of the ideal goal if truly modern vertical transportation is to be achieved.

THREE POSSIBLE ELEVATOR PLANS FOR 24-STORY BUILDING

Showing building density in relation to handling capacity of each plan

Bldg. Density Sq. Ft. Per Person	PLAN 1: 4 Local Elevators (B-1 to 14) 3,000-lb. cap. 600 fpm.	PLAN 1: 4 Express Elevators (1-14-24) 3,000-lb. cap. 800 fpm.	PLAN 2: 6 Elevators (All stops)	PLAN 3: 7 Elevators (All stops)
100	14.4	12.6	9.25	11.2
110	16.3	12.2	10.0	12.35
125	19.1	16.0	11.2	14.0
150	22.9	19.2	13.5	16.8

Costs of operatorless elevator modernization

Excerpts from an address given by LeRoy A. Petersen, president, Otis Elevator Co., before the Building Owners and Managers Association in Washington, D.C.

BECAUSE of a great variety in type, age and condition of existing elevators, a statement of approximate cost to modernize can be made in general terms only as there is no common denominator as a starting point. I shall quote cost ranges which may be applied to various classes of existing elevators and with the assumption that the resulting operatorless installation will be of a nature consistent with my definition of the term "operatorless control"* and that existing cabs and hatchway doors may be retained. Price ranges apply to existing gearless elevator installations in the average office building.

CLASS 1: If an existing installation of gearless elevators was installed within the past 5 to 10 years, including a manually controlled supervisory dispatching system which was being sold just prior to the introduction of the modern operatorless control elevator, the cost of modernization to operatorless control will probably fall within the price range of $15,000-$20,000 per elevator.

CLASS 2: If the existing elevator installation is of the type described in Class 1 but not including a manually controlled supervisory dispatching system, a changeover to modern operatorless control will probably fall within a price range of $25,000-$35,000 per elevator.

CLASS 3: If the existing elevators are of the gearless, variable voltage, car switch control type, they will require new controllers, selectors, a supervisory dispatching system and all other new electrical equipment associated with the modern operatorless elevator, reusing the existing machines and motor generator sets. This class of operatorless changeover will probably fall within a price classification of $55,000-$70,000 per elevator.

CLASS 4: If the existing elevators are of the car switch resistance control type, they will require completely new electrical equipment and control devices, with the result that a modern operatorless changeover will fall within a price range of $65,000-$80,000 per elevator.

A word of caution: The name "operatorless elevator" and the term "operatorless control" are now being used by many elevator companies and building owners and managers as definitive of any type of unattended elevator—hence not comparable to the comprehensive definition which I have previously given. For example, we have heard of instances in which it has been proposed that a simple electrical change be made to use the signal light circuit as an automatic starting impulse and install some form of door protective device, thus obtaining a form of unattended elevator.

Unattended elevators of one form or another have been available for 50 years or more but those developments which have made it possible to automatically operate groups of high speed passenger elevators under the definitely controlled conditions required to realize maximum efficiency from the group are of relatively recent vintage.

*Reference to the control and coordination of a group of such intensive service, unattended elevators by a specially adapted automatic supervisory system, including automatic traffic program selection.

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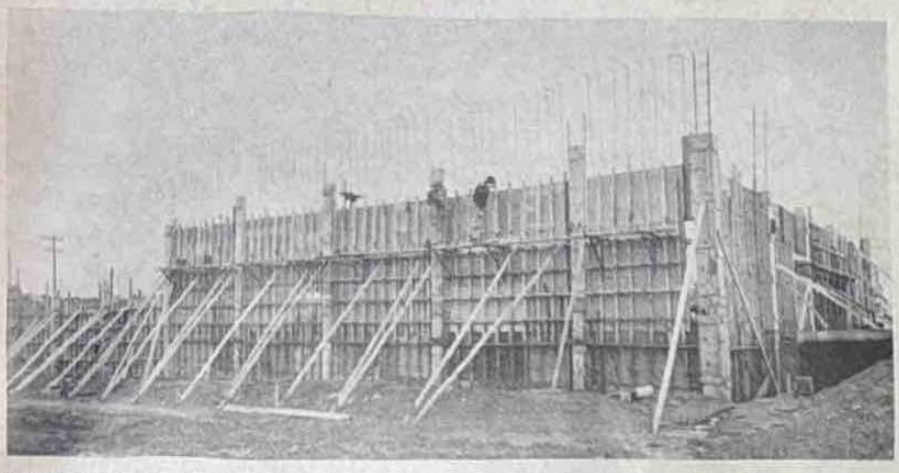


CONCRETE FORMING SYSTEM used at Seattle's Roxbury School speeded forming time by at least 20%, says Dohlgren Construction Co. Contractor adds that finished wall had excellent architectural concrete finish and alignment was "straight as a die."

Unusual fastener speeds forming

A FASTENING DEVICE for plywood concrete forms which holds both the form tie and waler in place is reported by contractors to make forming 20 to 40% faster than conventional systems. Developed by a Seattle firm, Trueforms, Inc., it has been used on a number of jobs in the Northwest and now is being introduced in northern California.

The device is a bracket called a Ply-Tie holder, designed for use with conventional fir plywood panels. One arm of the bracket has a teardrop slot which fits over the head of a special form tie; the other arm of the bracket holds the waler.

With this system, the tie holes are predrilled in the plywood, using a standardized pattern. Then the contractor tacks 2x4 studs to the plywood with one of the studs backing the joint. Holder secures the form tie and holds the waler in place.

Since the waler drops into a procession of holders along the entire length of the wall, a minimum of nailing is necessary. Formwork can be quickly stripped by springing the walers loose and releasing the tie holder with the tap of a hammer. The same holder can be used for light, medium or heavy construction by varying the spacing and thickness of studs and walers.

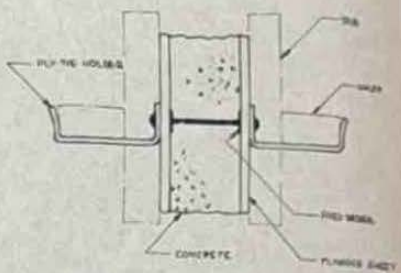
The Trueform concept was developed by the late Homer Allen, firm president, who had been in the prefabricated form business for several years. He consulted with engineers and contractors to formulate a system which would achieve an architectural concrete finish at an economical cost. The fastening system capitalizes on the relatively high cost of prefabricated forms, since contractors can use standard size panels which are widely available and select their own stud spacing according to the nature of the job.

Initial cost for the forming is not high. Trueform ties are the same as conventional ties (and comparable in price) except for the space between the washer to the head, which is equal to the thickness of the plywood plus the holder, or less than an inch using ¾-in. plywood.

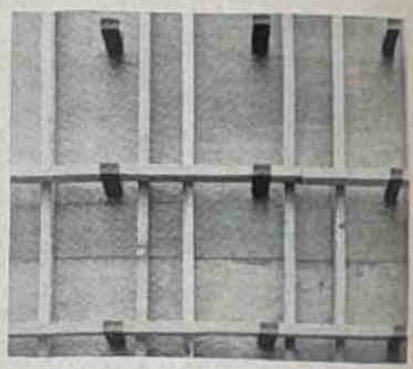
The system is applicable for most forming requirements, including walls, columns, pilasters and beams, on all kinds of industrial, commercial and residential jobs.

Walls 14 to 16 ft. high for a new Army Reserve Training Center at Seattle's Fort Lawton (see photo at right), which employed more than 40,000 sq. ft. of plywood, were formed 20% faster by using the Trueform system, according to Kuney-Johnson Construction Co. Project engineer Bud Collins states that the forms were easy to strip and "as accurate as anything I've ever seen."

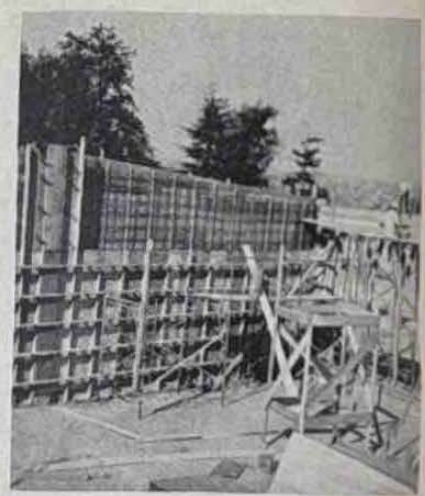
PLY-TIE HOLDER secures both form tie and waler in place. Form work can be stripped quickly by lifting waler out of holder and tapping latter loose with hammer.



BASIC DETAILS of Trueform system. Holder has teardrop slot which fits over end of special form tie.



FEWER WALERS, STUDS are required. Studs need only to be tacked into place, with one stud backing up each joint.



ERECTION OF FORMS for new Army Reserve Training Center at Fort Lawton. Holder shown here was of earlier type and has three slots; later model has one (note drawing above).

Determining lighting needs

AN OPTICAL SYSTEM for determining the lighting requirements of any seeing task was introduced recently to lighting engineers, designers, architects and ophthalmologists at the first of a series of regional conferences conducted by the Illuminating Engineering Society.

The new technique, which indicates the need for moderate to sharp increases in the recommended lighting levels for a broad variety of standardized lighting classifications, is the result of an eight-year study conducted at the Vision Research Laboratories of the University of Michigan and supported by the Illuminating Engineering Research Institute, an independent body of the IES.

Representative of the range of necessary lighting modifications indicated by the new measuring technique are the following recommended footcandle increases:

- For desk-level illumination for an accountant, from 50 to 150.
- In school tasks involving writing with soft lead pencils, from 30 to 60.
- For the work area of a draftsman, a fourfold increase from 50 to 200.

In many instances, initial tests have indicated that no modifications are necessary.

"Most Scientifically Accurate": The evaluation system, developed by Dr. H. Richard Blackwell, director of the Michigan laboratories, and a team of University of Michigan research specialists in optics and psychology, is considered to be the most scientifically accurate and most comprehensive technique for determining the lighting needs of specific tasks thus far devised, according to C. L. Crouch, technical director of the society.

Dr. Blackwell began developing his new system in 1950 with a series of studies to establish how accurately a variety of subjects could determine the presence of circular targets of diverse sizes exposed to view for varying periods. The targets were designed to simulate various degrees of "difficulty" in seeing specific objects under varying conditions. Scores of thousands of readings were recorded and carefully catalogued. These data became the cornerstone of the system which is based on the scientific fact that an identical amount of light is required to perform any visual task of total equal difficulty.

Thus, Dr. Blackwell explained at the symposium, "if the lighting engineer knows the amount of light required to perform a given visual task, he can accurately specify the amount of light required by another task equally difficult to see."

To relate his accumulated basic data to any given seeing task, Dr. Blackwell developed a complex optical instrument called the Visual Task Evaluator or VTE. With this device he can view a seeing task of unknown lighting requirements at threshold, or just bare visibility, match it to a test object of known lighting requirements and quickly determine the lighting requirements from the collected statistical data. The indicated lighting requirement thereafter needs only simple mathematical adjustment to compensate for the differences between the standard data, collected under optimum laboratory conditions and actual conditions in the field.

Eye "Assimilates" by Bits: While conducting his eight-year study, Dr. Blackwell recognized that the average eye sees or "assimilates" visual information by bits and that the level of illumination determines the number of assimilations the eye can make in a one-second interval. At the Dearborn meeting he indicated that the average eye "is easily capable of making 10 such assimilations a second if the light level is sufficiently high."

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exterior house paint

After testing a new formula over the past seven years on hundreds of homes throughout the West, Fuller chemists report that they have come up with an answer to the problem of longer color and gloss retention. The paint was exposed to the rains of the Northwest, the winters of Montana, the heat of Arizona and California and the salt-laden fog of the coast. Result: the paint behaved extremely well under all conditions. It is easier to apply than traditional oil type paints; does not need thinning; and the initial drying, sufficient to give it a protective surface against dust, takes only two to three hours. The white house paint will not stain with rust from nails, screens and outside drains.—W. P. Fuller & Co. (Item No. 1)

low-profile cooling towers

Through its low profile and uniform exterior treatment, a series of Lo-Line cooling towers with capacities ranging upward from 75 tons is intended to compliment architectural design. Companion to the redwood framed model, the series features all-steel structural members and louvers, casing, distribution system and fan deck of asbestos cement. Redwood is used in the deck fill.—J. F. Pritchard & Co. (Item No. 2)

drum lighting unit

Prescolite has introduced what it calls the only drum lighting unit with pan integral mechanical parts constructed from weather-resisting die cast aluminum. Trigger Lok cam-locking principle and simplified hinging allow fast, easy maintenance. Glass is hand blown, satin finished Thermopal.—Prescolite Manufacturing Co. (Item No. 3)

heating-cooling unit

Smart styling characterizes the Regulaire gas- or oil-fired combination furnace-air conditioner which can be

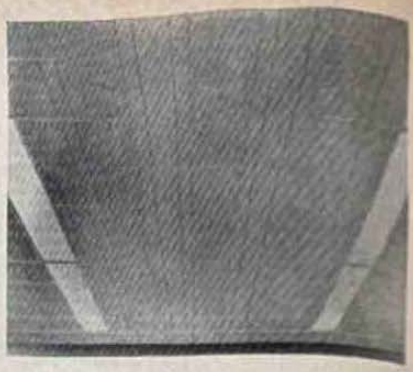
built in anywhere in the home—basement, utility room or even in the family room, kitchen or foyer. All duct connections can be made from the top, permitting an "island" installation dividing living and dining areas as shown in the photo. Because the unit needs no clearance areas on the sides or back, dust-collecting crevices are eliminated.—Perfection Industries, Division of Hupp Corp. (Item No. 4)

bronze finish awning

Architects in the past have hesitated to recommend aluminum awnings for commercial and industrial buildings because bare aluminum was out of the question and colored ones out of place. Now Arrow Metal has launched a full-scale program to develop a practical production method for anodizing and finishing bare aluminum strip. The bronze finish is reported to stand up under all weather conditions and to give the same results as the company's Pressurecoat finish.—Arrow Metal Products Corp. (Item No. 5)

radiant-acoustical ceiling

A ceiling system of 12x24-in. aluminum panels which offers radiant heating and cooling can be used in conjunction with standard acoustical tile. Back of panels are thermal heat bridges which contact water pipes, connected to special square shape headers. Suspended at any height, the



panels are supported by standard acoustical T-bars, save duct space on each floor and are available in more than 400 colors or can be matched to meet any special specifications.—Airtex Corp. (Item No. 6)

nerve center for schools

A central nerve center which incorporates communication, alarm and television systems into one can mean cost savings for schools. Instead of installing separate systems, a single network can function as public address, internal telephone, fire alarm and panic control, time signals and audio-visual instruction. Provision can be made for future expansion or for addition of new electronic services operating over the same basic set of wires and conduits.—Dukane Corp. (Item No. 7)

handy hoist

Portability is a big advantage claimed for the Tusky hoist because it can be towed by car or pickup as fast as the contractor wants to tow it and upon reaching the job, it can be moved into position and put to work within minutes by one man. Hydraulically controlled, the hoist can be operated from the ground or at any point along the length of its mast, which may extend as high as 100 ft. Its capacity is 1,500 lb. but regardless of load, the speed of the platform in either direction is governed at 100 fpm.—Tublar Structures Corporation of America. (Item No. 8)

sliding mirror doors

Aluminum framed MirroGlide doors "open up" bedroom wardrobe walls, dressing rooms, dens, hallways, etc., by the illusion of increased space. Available in both bypass and pocket types and in various heights and widths, the doors come in clear, gold and black Alumilite finish. Sliding sections move on top mounted, dual tandem nylon rollers with ball bearing axles. Bypass models have a single extruded dual track head section for easier installation. Masonite backing is installed without drilling.—Frank B. Miller Mfg. Co. (Item No. 9)

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To give architects and engineers a wide range of decorator effects, the ½x½x½-in. Koldbonded louver is offered in a variety of colors which can be mixed or matched. Fabricated from .025 aluminum, it is assembled as one unit and can be specified in lengths up to 48 in. and in widths up to 24 in. Louver can be easily cut to varying sizes and shapes on the job.—Columbia Electric and Manufacturing Co. **(Item No. 10)**

plumbing fixture supports

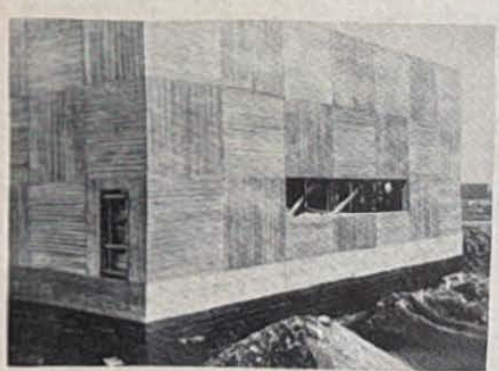
Restroom planners and designers can gain additional floor space by choosing from a line of Zurn Thinline systems of wall closet supports. Reduced dimensions between center line of flow and front of face plate make it possible to install, for example, the single horizontal adjustable system in pipe case space as little as 6½ in. Systems accommodate any manufacturer's wall type plumbing fixtures.—Plumbing Products Division, Zurn Industries, Inc. **(Item No. 11)**

reroofing process

A cold process built-up roofing method is reported to cut reroofing application costs by as much as 55%. The Vulca-Dek system literally "vulcanizes" a new roof right over and to the old roof surface, thus eliminating the time, labor and expense of old roof removal. It is totally bonded to roof surfaces and does not require skilled labor for speedy application. — The Monroe Co., Inc. **(Item No. 12)**

textured concrete form

Weldwood Formtex, newest face in a line of concrete forms, features an unusual texture of deep, irregularly spaced, full-length grooves which produce decorative patterns for exteriors of all types of structures. It eliminates the need for sack and rub treatment, making it only necessary to patch and tie rod holes and occasional honeycomb spots. The result: savings of about 10c per square foot in finishing costs. Formtex gives up to 13 reuses.—United States Plywood Corp. **(Item No. 13)**



ceiling fixture

What may be considered a new fixture shape for commercial and residential installation, the Ellipse radiates light from the entire surface of satin finished opal glass with its greatest intensity downward. The one-light rigid stem ceiling fixture is wired for either a 200- or 300-watt bulb.—EJS Lighting Corp. **(Item No. 14)**

framing anchor

Because of its full symmetrical design, a framing anchor called Strong-Tie can be used for rights or lefts for practically all framing needs. It offers six combinations for all two- and three-way ties. The two full symmetrical surfaces improve load distribution, reduce inventory problems. Other items in the Strong-Tie line: joist hangars for applications of 2x4s up to 2x16s; support angles for all-purpose use; and special welded joist hangars produced to customer specification.—Simpson Co. **(Item No. 15)**

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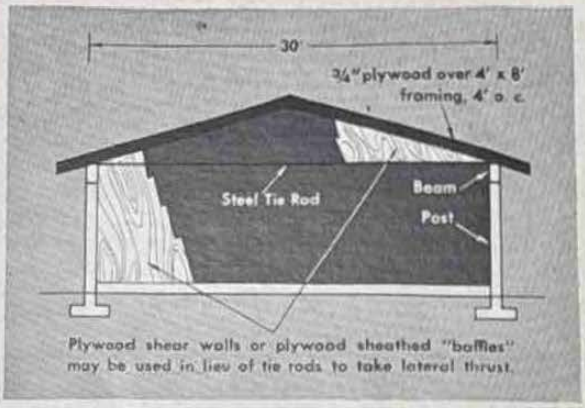
Warehouses in Seattle, Portland, Spokane

new approaches to structural design with fir plywood



Tilted roof planes (each a rigid plywood diaphragm) provide mutual support at ridge, permit long, clear spans. Diaphragm action transfers horizontal thrust to steel ties or fir plywood end walls.

FIR PLYWOOD

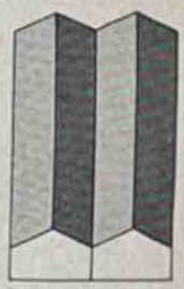
TENT-SHAPED ROOF UNI

ARCHITECTS AND ENGINEERS:
John Lyon Reid & Partners, San Francisco, Calif.
Partners in Charge: William A. Gillis, A. I. A., and Dr. Alexander Tarics, Structural Engineer

THIS folded plate plywood roof system developed for an expandable community school offers a straightforward solution to the problem of obtaining a high degree of design flexibility at low cost.

The basic tent-shaped canopy units may be placed separately or combined in series or rows to cover any given area. With supports needed only at wide intervals, walls and partitions may be arranged or re-arranged as needed.

Structurally, the system relies on the outstanding diaphragm strength of the plywood sheathing. The roof planes—each a rigid plywood diaphragm—are inclined to form a giant inverted "V" beam, eliminating posts or trusses normally required for support under the ridge. Because the roof is self-supporting at the center, rafter spans can be nearly doubled, e.g., up to 50 feet with 4 x 14's on four foot centers. Diaphragm action also permits ties and supporting columns to be placed at wide intervals.



Basic units can be arranged in series or rows as needed

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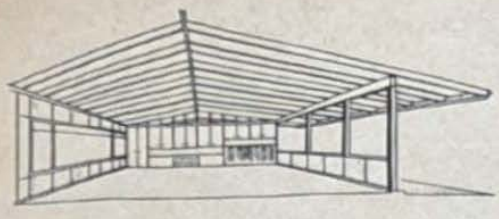
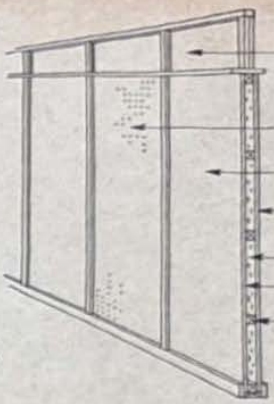
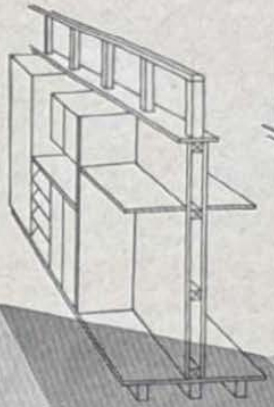


The interior may be left open for classroom uses
. . . or divided into smaller areas by movable partitions

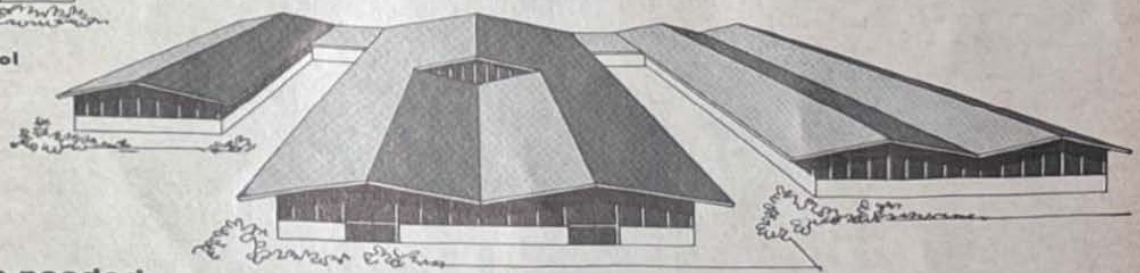




FOLDED PLATE ROOF

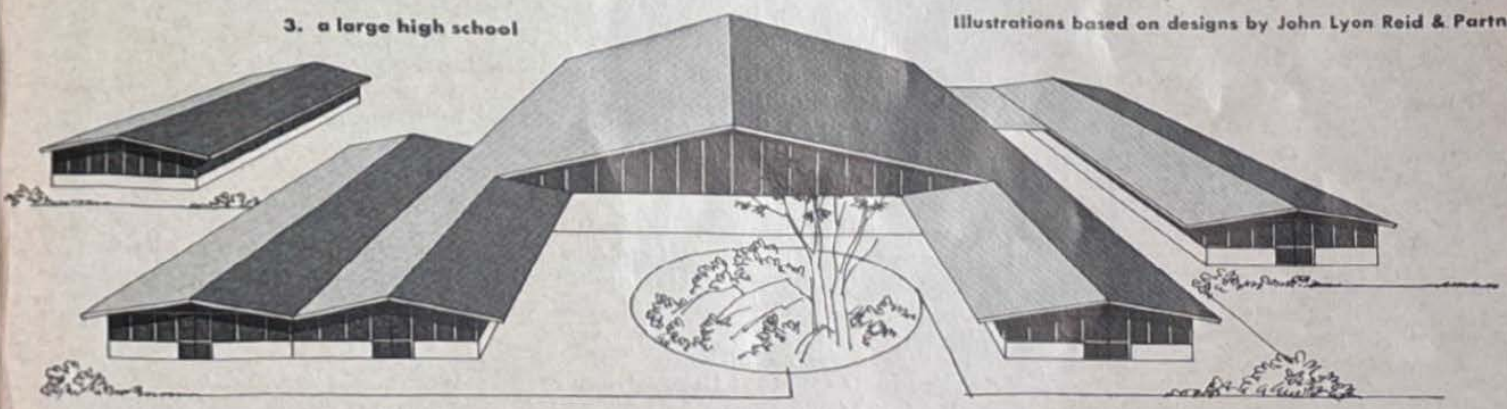
PROVIDE MAXIMUM FLEXIBILITY FOR AN EXPANDABLE SCHOOL

1. a small elementary school

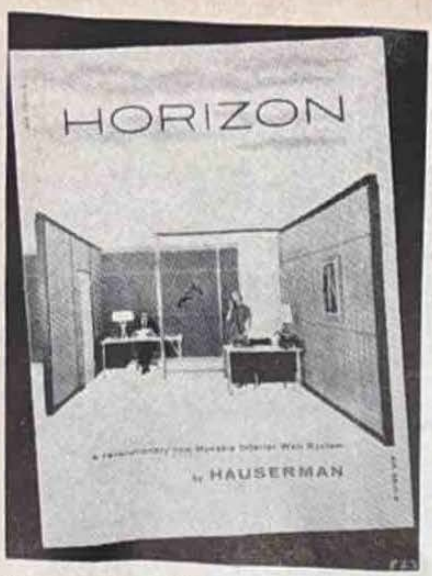


Units can be added as needed

3. a large high school



Illustrations based on designs by John Lyon Reid & Partners



Horizon Movable Wall System: illustrates system's complete movability and custom selection of panel materials, feature inserts, modules, post shapes, glass patterns, panel colors; 6 pp.—E. F. Hauserman Co., 7516 Grant Ave., Cleveland 5, Ohio.

Util-A-Vent Ventilating Units (AIA 30-D-1): covers complete line of belt driven units, performance tables, engineering data, selection, installation; 26 pp.—General Blower Co., Morton Grove, Ill.

Spanall Horizontal Shoring: describes plates and lattice members; illustrates how plate slides inside lattice member and can be adjusted and set at desired length; provides charts which show suitable spacings and members needed for wide range of loads and spans; 8 pp.—Spanall of the Pacific, 600 California St., San Francisco 8, Calif.

Modular Lighting for Modular Measure: (AIA 31-F-2): covers Mobilex and Troffer line of recessed fluorescent fixtures; how these units fit within building cube; 16 pp.—Day-Brite Lighting, Inc., 6260 N. Broadway, St. Louis 15, Mo.

Jamison Package-Passing Doors: designed to help architects, contractors and refrigeration engineers select and specify cold storage package-passing doors and tunnels for all standard operating conditions, with data on temperature ranges, door styles, etc.—Jamison Cold Storage Door Co., Hargerstown, Md.

Edwards Airvec Freon Condenser: describes "radically new type of air condenser" for air conditioning industry; 4 pp.—Edwards Engineering Corp., 101 Alexander Ave., Pompton Plains, N.J.

CATALOGS

Readers are requested to write directly to the manufacturers for copies of catalogs.

Finned Radiation and Enclosures: describes new Type Q finned radiation, different types of enclosures, finned tube heating elements, accessories equipment; has tables, charts, diagrams related to capacities, dimensions, specifications, selections; 16 pp.—American Air Filter Co., Inc., 215 Central Ave., Louisville 8, Ky.

Design Criteria for Stacks and Breechings: features tables and charts to help determine best methods of conducting flue gases to atmosphere for most satisfactory burner operation; discusses supplemental fixed and barometric damper applications in detail; 23 pp.—Orr & Sembower, Inc., Reading, Pa.

High Intensity, Low Brightness Controlled Illumination: gives data on Directo-Lens for use in fixtures for offices, schools, churches, plants, homes, which are available in two types of clear crystal glass in five square and three round sizes; 4 pp. plus series of six photometric data pages.—The Phoenix Glass Co., Monaca, Pa.

Ariston Hand Rail Brackets: covers shell-molded bracket which conceals the anchorage; illustrates principle which allows adjustment of bracket in any direction on wall surface; gives installation details for concrete or masonry, plaster wall and wood construction; 4 pp.—Michel & Pfeffer Iron Works, Inc., 212 Shaw Road, South San Francisco, Calif.

'58 Wadsworth Guide (AIA 31-D): has technical data, cabinet sizes, knockout arrangements, etc., for safety switch line, wiring diagrams and simplified index; 162 pp.—Wadsworth Electric Mfg. Co., Covington, Ky.

Kwik-Fit Door Pattern: describes what it calls "something new" in door fitting at one-third the time; 4 pp.—Kwik-Fit Door Pattern, P. O. Box 126, Blackstone, Va.

Sanymetal Toilet Compartments: illustrates shower stalls, hospital cubicles and dressing room compartments as well as toilet compartments; contains a complete set of color samples and simple diagrams; 28 pp.—The Sanymetal Products Co., 1664 Urbana Road, Cleveland 12, Ohio.

Spanjer Metal Letters (AIA 15-R-1): describes complete line of traditional and modern styles; has on-location photos; explains methods for specifying and ordering special design lettering and for mounting on masonry and other building materials; 22 pp.—Spanjer Brothers, Inc., 1160 N. Howe St., Chicago 10, Ill.

Prescolite Preslok Series: highlights new conception in hinged frames for recessed fixtures; 4 pp.—Prescolite Manufacturing Corp., 2229 Fourth St., Berkeley, Calif.

Robertson Versatile Wall: (AIA 17-A) file folder with individual sheets covering construction details, progress photos of this window wall construction.—H. H. Robertson Co., 2400 Farmers Bank Bldg., Pittsburgh, Pa.

Simpson Redwood Grades: detailed description of each grade along with full color photos; lists stock sizes available; 12 pp.—Simpson Redwood Co., Room 601, Arcata, Calif.

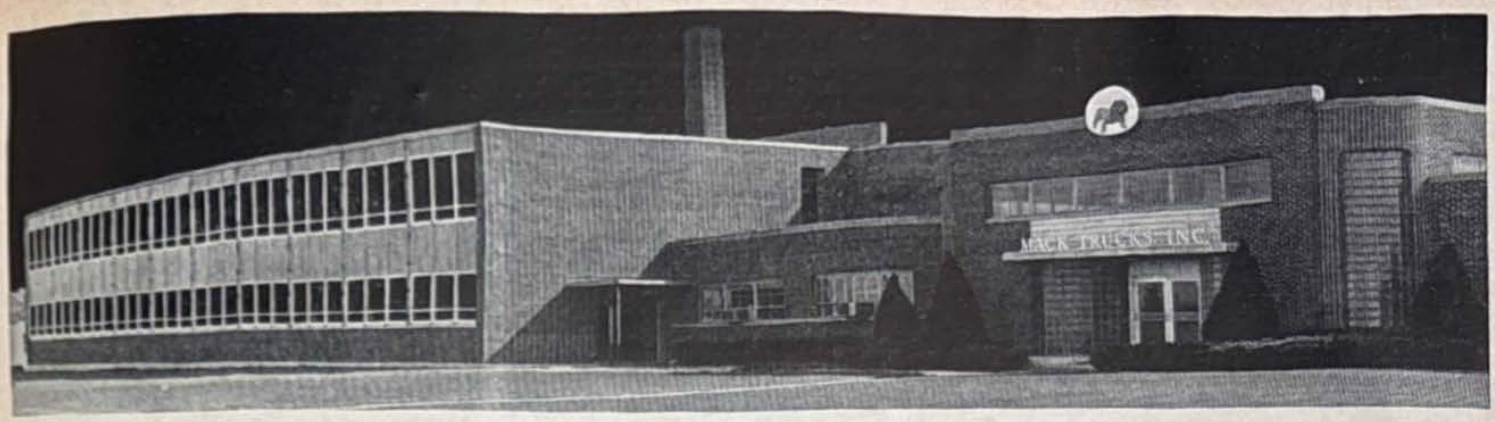
Questions and Answers on Master Mix: pocket-size folder covers product description, mixing procedure, application, protection and miscellaneous; 8 pp.—L & M Tile Products, Inc., Box 35472, Dallas 35, Texas.

Marco Skylights: consolidates data of all previously issued literature on aluminum and fiberglass skylight products; describes models and designs as well as major installations; 12 pp. —The Marco Co., 45 Greenwood Ave., East Orange, N.J.

Crest Tile-Set (AIA 23-P): describes thin-bed portland cement material for dry installation of real clay tile, ceramic mosaics, marble, precast terrazzo and similar materials; includes installation drawings; 16 pp.—Kaiser Manufacturing, Inc., 2000 Harrington St., Houston, Texas.

Imagineering in Steel: outlines three steps in planning, cutting and joining new Bild-A-Flex steel framework; has tables for calculating maximum loads for horizontal and upright framework; 20 pp.—Berger Division, Republic Steel Corp., 1038 Belden Ave., N.E., Canton 5, Ohio.

Uni-Crest Expanded Polystyrene: lists qualities such as low K-factor, slab and block sizes; contains specification sheets for applications to a variety of perimeter, foundation and concrete slab insulation problems; file folder. — Uni-Crest Division, United Cork Companies, Kearney, N.J.



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Completed Building — Macomber V-LOK construction with V-LOK Girders and Purlins, provides large unobstructed bays for final truck assembly department.

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T-SQUARE TALK

firm changes, additions

Associates J. Everett Hoerner and Allen W. Young are now principals in the firm of Kaestner, Hoerner & Young, Inc., architects-engineers of Visalia, Calif., formerly known as Kaestner Associates.

Albert Arthur Hoover, AIA, formerly partner of Perkins & Will in the firm's White Plans, N. Y. office, has joined the staff of John Carl Warnecke, AIA, San Francisco. Hoover was designer of the Heathcote Elementary School in Scarsdale, N. Y., which won the Silver Medal from the Architectural League of New York in 1953.

William Phipps has joined the architectural firm of Doudna & Williams, Yakima, Wash., now known as Doudna, Williams & Phipps. A graduate of the University of Washington, the new member was formerly employed by the Yakima firm of Gowan & Paddock.

new offices

Roger J. Gotteland, AIA, and Jan Koczarski have formed an architectural firm known as Gotteland Koczarski in the Second and Ch Building, Seattle.

Harold Keeney Jr. has opened architectural office at 13251 Ave. N.E., Kirkland, Wash. He returned to his home state aft 10-year absence, most recently w ing in the offices of Henry Hill John Lyon Reid in San Francisc

Donald Grier Hannum and Will Whifler have opened offices for practice of architecture at 153 versity Ave., Palo Alto, Calif.

new addresses

Bolton White, AIA; Jack Herma AIA; and Allan Steinau, AIA, to Beach St., San Francisco.

Samuel G. Morrison, architect, the Jones Building, Third and Un Seattle.

deaths

Norman Hunter, AIA, of Los A geles and national president of Construction Specifications Institu died May 23. Born in Auckland, New Zealand, and a graduate of Auckland University, he came to the U. S. in 1927, practicing architecture in New York and New Jersey until 1945. For the past several years Hunter had devoted much of his time to the CSI and a dressed the Conference on Standar in San Francisco early this year.

HUNT

Joseph H. Wohleb, AIA who found ed the architectural firm of Wohle & Wohleb of Olympia, Wash., die June 11 at age of 71. A number buildings on the state capitol ground are among the projects designed b the firm.

awards

Donald Arthur Winkelman, an employee in the Seattle architectural firm of Bittman & Sanders, has received one of three special mentions in the LeBrun Fellowship competition sponsored by the New York Chapter, AIA.

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DURHAM'S CHURCH ANALYSIS

Because of the interest evoked in Robert L. Durham's article, "An Architect's Case Study of a Church," which appeared in PA&B for May, reprints are being made available at cost. Send requests to: Reader Service, Pacific Architect and Builder, 2418 Third Ave., Seattle 1, Wash.

retirements

Ernest R. Boyd, chief of the architectural section of the engineering control branch for the U. S. Army Engineer District, Alaska, has retired after 14 years of service, coming to Anchorage when the Corps of Engineers began its rush military construction program. He and his twin brother, Richard R. Boyd, structural and architectural chief, have been with the district from before the time it was formally established.

speakers

Edgardo Contini, engineer of Beverly Hills, Calif., was guest lecturer at the University of Minnesota School of Architecture last month, discussing the basic structural systems available to the designer.

campus notes

A University of Washington Architectural Foundation has been established to provide scholarships and awards for students in the College of Architecture and Urban Planning. Initial funds will be set up with contributions of charter sponsors, in the amount of $100 each made on or before December 31, 1958. Alumni and friends interested in participating in the foundation may contact Dean Arthur P. Herrman in Seattle.

AIA activities

Northern California Chapter has elected these officers: Donald Powers Smith, president; Corwin Booth, vice president; Joseph Esherick, secretary; Richard Banwell, treasurer; and John Lord King, Alexander Yuill-Thornton and Andrew T. Hass, directors.

Montana Chapter has named Kenneth K. Knight, Great Falls, president; Richard Taylor, Kalispell, vice president; H. C. Cheever, Bozeman, reelected secretary-treasurer; and Calvin Hoiland, Great Falls, and Oswald Berg Jr., Bozeman (retiring president), directors.

Southwest Washington Chapter at its annual banquet in Tacoma May 23 presented craftsmanship awards, with Harry Berry as chairman, to: Virgil Cliff for "outstanding cooperation and superior execution of sign and commercial advertising"; Robert Coleman for "outstanding execution of sheet metal work on the Stadium High School roof"; Frank Faley for "outstanding supervision of a superior manner for work on the Tyee-Park Elementary School"; Victor Nash for "outstanding electrical work on the Woodrow Wilson High School"; and Oliver Tudemann for "unusual execution of a mural."

NEW OFFICERS of the Southwest Washington Chapter are Robert Olson, first vice president; Charles T. Pearson, director and immediate past president; Robert B. Price, president; Percy Ball, secretary; and Donald Burr, second vice president. All are from Tacoma except Olson, who is from Olympia. Installation took place at the annual meeting last month.

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SUPPLIERS

• **Pacific Tile and Porcelain Co.,** on the eve of its 25th anniversary, has announced expansion plans for 1958. The company recently opened a warehouse in Seattle and intends to establish similar facilities in Phoenix this month.

• **EKCO Products Co.** has diversified its line of special products for the building industry with the purchase and introduction of Lighting Dynamics, formerly known as Ruby Lighting Corp. This addition provides the manufacturer of steel lockers, hardware, sliding doors, bathroom fixtures and stainless steel sinks with a full line of fluorescent fixture designs.

• **United Vinyl Products, Inc.,** president Frederick W. Krieger of Seattle has been named superintendent of buildings and grounds at Montana State University, Missoula. A former MSU track star, he transferred to the University of Colorado, where he took a BS degree in architectural engineering.

• **Standard Tank and Seat Co.** has named these new distributors in the West: Wuesthoff-Hofmann-Jones, Inc., Los Angeles, for southern California and Arizona; Davids-Steinbach Co., Oakland, for northern California and northern Nevada; Lou Falkenhagen Co., Portland and Seattle, for Oregon, Washington and the panhandle of Idaho.

•

STATE CHARTER

of Affiliation No. 6 is received by President James B. Lundberg of Concrete Products Association of Washington from executive director Walter Underwood of National Concrete Masonry Association. Says Lundberg: "Architects, engineers, builders and buyers will benefit from the increased design and technical research that will be available to our area; we will be able to provide a much finer service to the trade with this affiliation."

• **Crane Co.** has named Charles A. Warden as special trade relations representative for the Pacific Coast and is being succeeded as manager of the company's San Francisco branch office by Frank R. Perry.

• **Pabco Building Materials Division** of Fibreboard Paper Products Corp. has appointed R. R. Galloway as vice president and general manager, with headquarters in San Francisco.

• **West Coast Lumbermen's Association** has chosen Jack Fairhurst of San Rafael, Calif., as president.

• **American-Marietta Co.** will construct a $1 million synthetic resin research center on Seattle's Harbor Island for the evaluation and testing of wood products manufactured in the Northwest.

• **Northwest Plaster Bureau** has named Richard Cronn of Portland as president. Other officers: David Kissack, Vancouver, B.C., vice president; W. S. Wilson, Seattle, reelected recording secretary.

• **Westinghouse Electric Corp.** has appointed Roy F. Carter as sales engineer for its air conditioning division, with headquarters in Fresno, Calif.

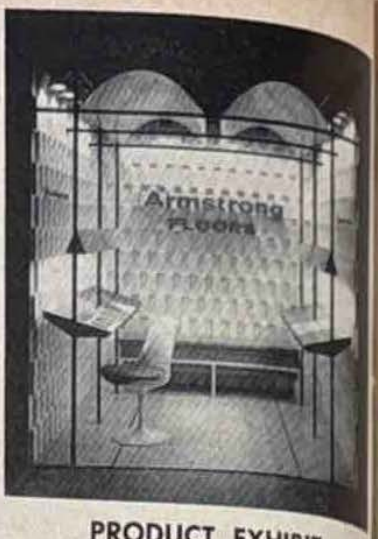
• **Washington State Chapter, Producers' Council,** has awarded a plaque for outstanding service to the building materials and equipment industry to Ralph E. Yoder of Seattle, regional director of the Structural Clay Products Institute.

• **Continental Materials Corp.** has acquired Williams Furnace Co. of Los Angeles and will operate it as a subsidiary, with L. P. MacHarg, former general manager of Williams, as president. Other management personnel will remain with the firm.

• **The Fyr-Fyter Co.** has established a Pacific Coast regional office at 132 Hawthorne St., San Francisco, under the direction of Donald Mathewson.

• **Certain-teed Products Corp.** has received plaques at five of its accident-free plants, including Tacoma, Wash., from the National Safety Council for 1957.

• **Tile Council of America** is now supporting architectural scholarships, each valued at $500, at 12 institutions, including the University of Southern California and the University of Washington.



PRODUCT EXHIBIT

to be shown during annual convention of AIA in Cleveland July 7-11 will have such attractive displays as that of Armstrong Cork Co., with its imaginative foamed plastic backdrop.

Product literature awards total 53

Top honors for this year's most outstanding building product literature and space advertising directed to architect-readers have gone to Kawneer Co., Perlite Institute, Armstrong Cork Co., U. S. Steel Corp., Fenestra, Inc., and Aluminum Company of America.

A record 297 entries were received this year and judging required two full days. The annual competition is co-sponsored by Producers' Council and the AIA.

CLASS 1: Literature concerned primarily with basic technical information.

EXCEPTIONAL MERIT

Kawneer Reference Book, Kawneer Co.

CERTIFICATE OF MERIT

Sound Absorption Coefficients, Acoustical Materials Association.

Manual of Control for Commercial Air Conditioning, Minneapolis-Honeywell Regulator Co.

Alcoa Aluminum in Architecture, Aluminum Company of America.

Concrete Masonry Foundation Walls, National Concrete Masonry Association.

Structural Facing Tile, Facing Tile Institute.

Architectural Woodword (2), Architectural Woodwork Institute.

HONORABLE MENTION

Porcelain Enamel in Architecture, Architectural Division, Porcelain Enamel Institute.

CLASS 2: Literature offering technical information confined to particular products of a single manufacturer.

EXCEPTIONAL MERIT

Armstrong Floors — Technical Data, Armstrong Cork Co.

CERTIFICATE OF MERIT

Anemostat Selection Manual, Anemostat Corporation of America.

Sloan Flush Valves, Sloan Valve Co.

Blumcraft Aluminum Railing Catalog, Blumcraft of Pittsburgh.

Barrett Architects' and Engineers' Reference Manual, Barrett Division, Allied Chemical Corp.

Koppers Built-up Roofing — Specification Manual, Koppers Co., Inc.

Alcoa Aluminum Roofing and Siding Products, Aluminum Company of America.

Adlake Aluminum Windows, The Adams & Westlake Co.

Truscon Metal Windows and Doors, Truscon Steel Division, Republic Steel Corp.

HONORABLE MENTION

Acoustical Ceilings, Armstrong Cork Co.

Sanymetal Toilet Compartments, The Sanymetal Products Co., Inc.

Products for Construction, Minnesota Mining and Manufacturing Co.

Ceramic Tile Booklet 208, American-Olean Tile Co.

Hermosa Glazed Ceramic Tile Workbook for Architects, Gladding, McBean & Co.

Mills Metal Toilet Compartments, Mills Metal Compartment Co., Division of The Mills Co.

LCN Door Closers, LCN Closers, Inc.

CLASS 3: Literature of primarily promotional character.

SPECIAL CERTIFICATE OF EXCEPTIONAL MERIT

Excerpts from the AIA Centennial Concert, Music and Architecture in the Environment of Man," Structural Clay Products Institute and Affiliates.

EXCEPTIONAL MERIT

Walls of Steel, United States Steel Corp.

CERTIFICATE OF MERIT

Architectural Alodine Process, American Paint Co.

Architectural Design with Porcelain Enamel, Armco Steel Corp.

Prize-Winning Designs, National Association of Architectural Metal Manufacturers.

George Nelson Sketchbook, United States Gypsum Co.

Facts and Figures to Help Architects, Natural Gas Co.

Formica Workbook, Formica Corp.

Garden Redwood, California Redwood Association.

Armstrong Vinyl Wall Tile, Armstrong Cork Co.

The Stronghold Line (A Sample Board of Nails), Independent Nail and Packing Co.

HONORABLE MENTION

Romany Spartan Panels, Ceramic Tile Panels, Inc.

Paraflo, Day-Brite Lighting, Inc.

Modern Lighting Techniques by Curtis, Curtis Lighting, Inc.

Horizon Interior Wall System, The E. F. Hauserman Co.

Carthage Marble, Carthage Marble Corp.

Metal Lath, Wheeling Corrugating Co.

Roddis Architectural Plywoods, Roddis Plywood Corp.

Arkelite Ceramic Glazed Structural Tile, Arketex Ceramic Corp.

Tim-Press (10), Timber Structures, Inc.

CLASS 4: Space advertising directed primarily to the architect.

EXCEPTIONAL MERIT

Curtain Walls of Steel or Aluminum, Fenestra, Inc.

Aluminum Curtain Walls (10), Aluminum Company of America.

CERTIFICATE OF MERIT

Tomorro's Design (4), Universal Atlas Cement Co.

Modern Door Control (13), LCN Closers, Inc.

You'll Always Be Proud, Marble Institute of America.

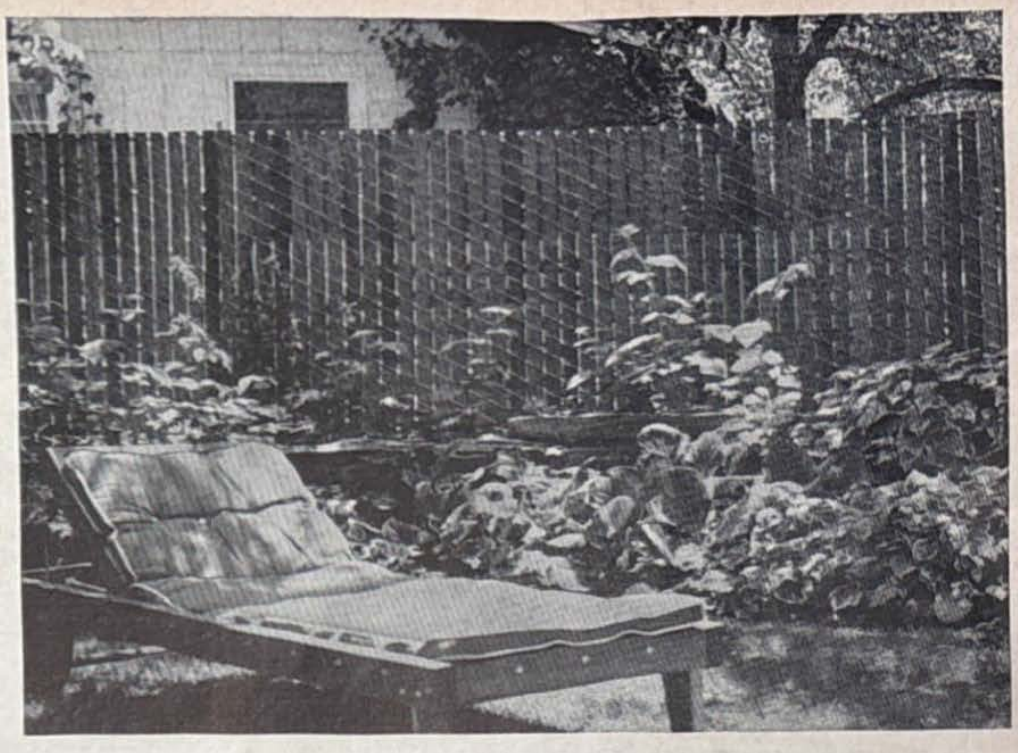
California Redwood, California Redwood Association.

U. S. Steels for Architectural Designs (7), United States Steel Corp.

HONORABLE MENTION

Church Spires (4), Overly Manufacturing Co.

Shading the Sun the Beautiful Way, Mo-Sai Associates, Inc.



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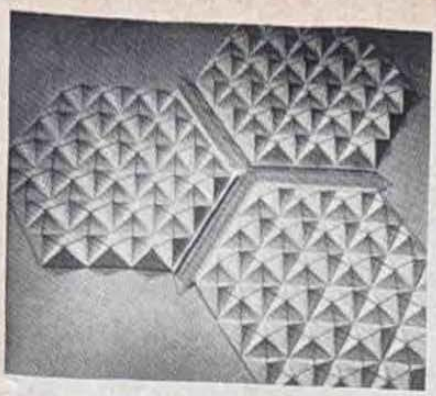

Report: Fourth Plastics Study Group. Building Research Institute, 2101 Constitution Ave., Washington 25, D.C., 1957. 125 pp. $3.

Covers a two-day meeting at Washington University, St. Louis, last September. Sessions were devoted to "Plastics for Roof Construction" and "A Case Study—Plastics in a New Building," detailing applications in the new Inorganic Chemicals Laboratory of Monsanto Chemical Co.

Modern School Shop Planning. Prakken Publications, 330 Thompson St., Ann Arbor, Mich. 1957. 184 pp. $3.85.

Revised and enlarged edition (plastic bound) of the only work available on the subject features the addition of extensive checklists of standards for evaluating shop plans and facilities and has over 200 illustrations.

TECHNICAL PUBLICATIONS

Aluminum in Modern Architecture—1958. Edited by John Peter. Reynolds Metals Co., 2500 S. Third St., Louisville, Ky., 1958. 118 pp. No charge.

A supplement to "Aluminum in Modern Architecture" issued in two volumes in 1956, this edition features the first detailed report published in the U. S. of the conference on aluminum in international architecture held in West Berlin. It also presents studies of 25 recently completed buildings which make extensive use of aluminum and has new photos of the Spanish project which won the first R. S. Reynolds Memorial Award.

Development Guide for Domestic Airport Terminal Passenger Facilities. Air Transport Association, 1000 Connecticut Ave., N.W., Washington 6, D.C., 1958. $1.

Designed to aid airport planners, builders, operators and tenants, this guide deals with passenger and baggage flow; handling of ground transportation, taxicabs, auto traffic and parking; physical arrangement for ticketing and baggage checking areas; special passenger service rooms and facilities for safety, comfort and convenience; and airplane boarding plans.

How to Design Pole Type Buildings. American Wood Preservers Institute, 111 W. Washington St., Chicago 2, Ill., 1957. 62 pp.

A manual of engineering and design data on the uses of pressure treated round and sawn timbers in commercial and industrial warehouses, service buildings and other structures. Seventeen line drawings show how to compute live, dead, wind loads and stresses for every structural member of a proposed pole type building.

Housing Almanac. National Association of Home Builders, 1625 L St., N.W., Washington, D.C., 1957. 144 pp. $2.

Called "a fact file of the home building industry," the new edition includes sections devoted to economics, specific housing programs, the federal government and functions of its agencies relating to housing, home building statistics, a chronology of federal housing legislation and a list of industry directories.

Windows and Glass in the Exterior of Buildings. Building Research Institute, 2101 Constitution Ave., Washington 25, D.C., 1958. 176 pp. $5.

Report on a research correlation conference covering 1) functions of the building environment; 2) product engineering; 3) controls; 4) design applications.

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Construction News Bulletin

Vol. 64—No. 13 (PA&B) News Section of Pacific Architect and Builder June 21, 1958

Dorothy McCormick ..... News Editor
Sandra Phillips ..... News Staff
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OREGON

●RESIDENCE— Ashland, Ore.

Bids will be opened 10 a.m., July 10, in office of the Construction Engineer, Camp White, for constructing caretaker's residence in Jackson County on Grizzly Creek near the Howard Prairie Dam, about 27 mi. by road in an easterly direction from Ashland; Spec. No. 100C-339. Specifications with above office. Bid bond 10%. SP 6-17

▲PRESBYTERIAN CHURCH— Beaverton, Ore.

Six bids received by Board of American Missions of United Presbyterian Church in the U.S.A., for construction of 5,200 sq. ft. one-story, wood frame church at southeast corner of Watson and Denny Road, Beaverton. Plans by John Foster, architect, 410 Postal Bldg., Portland. Bids opened June 12. TWO LOW: Beebe Construction, 2134 N. Flint, $55,875; C. M. Corkum, 2630 S.W. 2nd Ave., $59,457. HI BID: Associated Building Contractors, 7117 S.E. Main St., $66,582. Of Portland. WB 6-17. Previous report 5-29

▲RECEIVER, TRANSMITTER BUILDINGS— Burns AFS, Ore.

Bids received by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for constructing Receiver Bldg. and addition to the Transmitter Bldg. at Burns Air Force Station; ENG-45-108-58-157.

Two bids received for June 12 opening. BIDS: Mann Construction Co., Redmond, $57,800 (Sched. A), $22,035 (Sched. B), $79,-430 (total); Harney Homes, Inc., Burns, $81,604, $11,340, $92,944. Government estimate, $88,397, $10,495, $98,862.

SP 6-13. Previous report 5-26

■APARTMENT BUILDINGS, COMFORT STATIONS— Crater Lake National Park, Ore.

Planholders announced for constructing multiple-story residences for nine dwelling units, two 360 sq. ft. comfort stations, 1,000 sq. ft. covered entrance addition to existing administration building and one entrance station, Headquarters and Annie Spring Area, Crater Lake National Park; Proj. No. CL-W 169. Bids to be opened 2 p.m., June 24, in office of the Superintendent, Crater Lake National Park, 307 Federal Bldg., Medford.

Planholders: Joe Swearingen, Jasper; D. M. Blickenstaff, 21 S. Orange, Medford; Southern Oregon Construction Co., 925 S.W. Greenwood Drive, Grants Pass; Cummings Construction Co., 1050 S.E. Belle Aire Drive, Grant Pass; John Kovtynovich, 395 Skyline Loop, Eugene; H. Barnhart, Box 68, Medford; Ausland Construction Co., 1116 Airport Drive, Grants Pass; Myers D. Jones, Box 161, Medford; Wiley Co., Box 414, Ashland; Hampton C. Platt, Box 27, Salem; John C. Porter, 6014 S.E. 18th Drive, Portland. ZZ 6-13. Previous report 5-21

CHURCH SCHOOL— Dallas, Ore.

A school recreation center on the La-Creole bottoms north of Dallas is being planned by St. Philips Catholic Church. First unit will be a school, swimming pool, bowling alley and gymnasium. Future construction wil linclude a church, convent and rectory. DC 6-12

▲STORAGE BUILDING—Detroit Dam, Ore.

Six bids received by Corps of Engineers, 628 Pittock Block, Portland, for constructing a rigid steel frame dead storage building at Detroit Dam, Detroit Reservoir, North Santiam River, Willamette River Basin, Ore.; CIVENG-35-026-58-210. Bids opened June 13. TWO LOW: Schuyler Southwell, 816 McLoughlin Blvd., $17,277; Halladie Builders, 1915 N.E. Union, $18,480. HI BID: Armco Drainage & Metal Products Co., Box 751, $23,731. Of Portland.

WB 6-17. Previous report 5-27

■HIGH SCHOOL ADDITION— Forest Grove, Ore.

Planholders announced for construction of reinforced concrete one-story addition to Forest Grove High School. Bids will be opened 8 p.m., June 24, by School District No. U.H. 5, Washington County, Patricia Gilman, clerk, Superintendent's Office, High School Bldg., Forest Grove. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland. $25 deposit.

Planholders: Blanchard Construction Co., 2546 S.W. Vista Ave., Portland; R. I. Randolph Construction Co., Box 15, Salem; Walker & Green, Route 3, Box 207, Oregon City; Sterner Construction Co., 13845 S.E. Rhine St., Portland; Limpus & Phelps, 2501 21st Ave., Forest Grove.

WB 6-18. Previous report 6-7

●FIRE ALARM SYSTEM— Kingsley Field, Ore.

Bids will be opened 11 a.m., June 23, by George R. Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, for modifying base fire alarm system at Kingsley Field; Bid No. 58-30. Plans with above office. Architect: Howard R. Perrin, 1121 Main St., Klamath Falls.

ZZ 6-14

●MODIFYING HEATING SYSTEMS— Kingsley Field, Ore.

Bids to be opened 10 a.m., June 26, by George R. Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, for modifying heating systems in Bldg. 205, 206, 208 and 209, Kingsley Field; Bid No. 58-31. Plans with above office.

ZZ 6-18

★RESIDENCE— Klamath Falls, Ore

Contract negotiated with Peter O. Hedberg, 1005 Prospect St., Klamath Falls, by Glenn D. Bowen, owner, 704 Mt. Whitney St., Klamath Falls, for constructing two-story, 1,200 sq. ft. lower (including two-car garage) and 1,700 sq. ft. upper level (including overhanging sundeck), wood frame residence on Lakeshore Drive, 2½ mi. northwest of Klamath Falls. Plans by Nina Pence, architect, 5341 Alva St., Klamath Falls, call for reinforced concrete footings and foundation. ZZ 6-10

URANINUM PLANT (Mill)—Lakeview, Ore.

Sub-contracts are being received by Burr Johnson, construction superintendent for Lakeview Mining Co., at mill site one mi. north of Lakeview, for a 29,000 sq. ft. mill building for uranium reduction plant. Contractor: Lakeview Mining Co., Lakeview.

ZZ 6-18. Previous report 5-24

★SCHOOL ADDITION— McMinnville, Ore.

Award to Walter W. Miller, Route 2, Box 180-A, McMinnville, $15,475, by School District No. 40, Yamhill County, Fred J. Patton, clerk, Superintendent's Office, McMinnville, for construction of the wood frame, 30'x52' lunchroom addition to Columbus School. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. Bids opened June 12. OTHER BIDS: Cletus Gell, Dayton, $19,125; Johnston & Meloy, 1215 Liberty St., Salem, $21,500.

WB 6-17. Previous report 5-27

★SHOP ADDITION— Medford, Ore.

Award to A. W. Cummings Construction Co., 1050 S.E. Belle Aire Drive, Grants Pass, $187,113, by Jackson County School District

No. 549-C, School Administration Bldg., 509 Monroe St., Medford, for constructing 15,000 sq. ft. tilt-up or poured-in-place concrete shop addition to Medford High School. Architect: Hayslip, Tuft, Hewlett & Jamison, 2040 S.W. 3rd Ave., Portland.
WB 6-14. Previous report 6-12

★SCHOOL ADDITIONS, ALTERATIONS— Medford, Ore.

Award to T. C. Florey, Route 3, Box 69B, Medford, $24,509, by Elk-Trail School District No. 45, Medford, for alterations and additions to the physical education and activities building of the Elk-Trail Elementary School on the Elk Creek Road, about ½ mi. north of its junction with Crater Lake Highway. Consulting engineer: James K. Hoey, 56 Quincy St., Medford.
LB 6-17. Previous report 6-7

BUILDING MODIFICATION— Medford, Ore.

Plans will be available soon from Civil Aeronautics Administration, Box 45007, Airport Station, Los Angeles, Calif., for VORTAC conversion involving modification of existing prefabricated building at Medford; Proposal No. 4-58-1048. Includes expansion of concrete floor slab; removing existing wiring; standby power plant and roof and installation of new equipment; relocating fence and fuel tank; repainting; installing new underground cable and miscellaneous associated work.
SP 6-4

★BUILDING ADDITION— Mt. Hebo, Ore.

Award to Robert L. Wilson, 1275 N. 9th Ave., Corvallis, $44,258, by Pacific Telephone & Telegraph Co., Building Engineer, 301 Lincoln Bldg., Portland, for 65'x22', concrete and concrete block radiotelephone equipment building on Mt. Hebo, Tillamook County, Ore. Six bids received June 11. 2ND LOW BID: Duoos & Son, Box 222, Astoria, $46,972. HI BID: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland, $52,235.
WB 6-14. Previous report 6-6

▲TRANSMITTER, RECEIVER BUILDINGS— Mt. Hebo AFS, Ore.

Bids received by Corps of Engineers, Seattle office, 4735 E. Marginal Way, Seattle, for constructing Transmitter Bldg. and addtion to Receiver Bldg., including access road, security fence, septic tank and substation, at Mt. Hebo Air Force Station; ENG-45-108-58-148.

Five bids were received for June 13 opening. TWO LOW: R. L. Greene, General Contractor, 3505 N.E. Broadway, Portland, $92,981; Duoos & Son, Box 222, Astoria, $97,891. HI: Thompson & Georgeson, 1924 S.E. 6th, Portland, $130,000. Government estimate, $107,336.
SP 6-14. Previous report 6-5

●■ TELEPHONE EXCHANGE— Newport, Ore.

Bids will be opened 2 p.m., June 25, by Pacific Telephone & Telegraph Co., Charles Twelves, chief engineer, Lincoln Bldg., Portland, for construction of one-stroy, 88'x57' reinforced concrete new central office building at 4th and Alder streets, Newport. Plans by Church, Newberry & Roehr, architects, Builders Exchange Bldg., Portland.

Planholders: Waldo S. Hardie & Son, 858 Pearl St.; Albert Vik & Son, 160 Madison St.; Industrial Bldg. Co., Box 869. Of Eugene. E. E. Batterman, 147 N. Commercial St., Salem; Viesko & Post, Box 69, Salem; Andersen & Westfall, 3427 N.E. Halsey St., Portland; Thompson & Georgeson Co., 1921 S.W. 4th Ave., Portland; Albert Mittet, 397 Kensington St., Astoria.

Building will house dial switching equipment, and is designed for future addition of second floor; aluminum sash, doors and trim.
WB 6-18

▲POWER BUILDING ADDITION— North Bend AFS, Ore.

Bids received by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for constructing 18'x32' concrete masonry addition and alterations to Power Bldg., installing Government-furnished generators, sanitary sewer service and installing five fuel storage tanks at North Bend Air Force Station; ENG-45-108-58-151.

Three bids received for June 12 opening. BIDS: A. T. Fox, Box 831, North Bend, $67,496; Donald W. Thompson, 3421 Stanton, North Bend, $74,580; John Kovtynovich, 395 Skyline Loop, Eugene, $80,480. Government estimate, $75,640.
SP 6-13. Previous report 5-20

▲HIGH SCHOOL ADDITION—Oswego, Ore.

Four bids were received June 14 by School District No. 7, Clackamas County, 2500 S.W. Market Road, Oswego, for constructing concrete blockshop building at Lake Oswego High School. Architect: Whitney, Hinson & Jacobsen, 512 Failing Bldg., Portland. LOW: Gene H. Settergren, 1625 S.E. Woodward, Portland, $149,380; Raley Construction Co., Inc., 5709 Evergreen Highway, Vancouver, $149,994. HI: Juhr & Sons, 1339 S.E. Gideon, Portland, $158,800.
WB 6-17. Previous report 6-7

★HIGH SCHOOL ALTERATIONS— Portland, Ore.

Awards to Lorentz Bruun, 3636 S.E. 20th Ave., Portland, $203,986 (remodeling of main and auditorium buildings), and $47,343 (alterations to toilet rooms), by Portland School District No. 1, 620 N.E. Halsey St., Portland, for above work at Franklin High School. (For the former contract, award had been recommended to second low bidder since Bruun omitted sub-contractor list; however he proved that list had been prepared and was left out by accident).
WB 6-14. Previous report 6-3 & 4

▲HIGH SCHOOL REMODELING— Portland, Ore.

Four bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for remodeling in and the main building at Washington High School, S.E. 14th Ave. at Stark St. Bids opened June 11. TWO LOW: Gene Settergren, 1625 S.E. Woodward St., $71,598; (deductive alternate), $5,600; E. Carl Schiewe, 1024 N.E. Davis St., $72,707; $6,984. HI BID: Fred W. Carter Co., 6034 N.E. Davis St., $77,950. Of Portland.
WB 6-13. Previous report 5-29

▲GRADE SCHOOL ADDITION— Portland, Ore.

Nine bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for construction of separate building addition to Lents Elementary School, 5105 S.E. 97th Ave., Portland. Bids opened June 11. TWO LOW: Gulde Construction Co., 4831 N.E. 42nd Ave., $106,748; (add alternate, portable cabinets) $4,993; Wilson & Dean, 1016 N.E. 61st Ave., $107,779; $2,017. HI BID: Julius Johnson, 17640 S.E. Powell Blvd., $114,000; $810. Of Portland.
WB 6-13. Previous report 5-29

■ SCHOOL ADDITIONS— Portland, Ore.

Planholders announced for construction of three additions to Jim Bridger Primary School, 7730 S.E. Market St., and addition of two classrooms and corridor to Clinton Kelly School, 9030 S.E. Cooper St. Bids close 2:30 p.m., June 25, and will be opened 3:30 p.m., by Portland School District No. 1, 620 N.E. Halsey St., Portland. Plans with business office. $50 deposit each project.

Planholders—BRIDGER: E. Carl Schiewe, 1024 N.E. Davis St.; Jones-Balgemann Builders, 1839 N.E. Couch St.; Weston Construction Co., 7415 N.E. Glisan St.; Mason & Robinson, 2004 N.E. 137th Ave.; Julius Johnson, 17640 S.E. Powell Blvd.; Gene Settergren, 1625 S.E. Woodward St.; Charles Schmiedeskamp, 1008 S.W. 6th Ave.; Wilson & Dean, 1016 N.E. 61st Ave. KELLY: E. Carl Schiewe; Mason & Robinson; Gene Settergren; Wilson & Dean; Adolfo C. Bardi, 8105 S.E. Duke St.
WB 6-14. Previous report 6-6

●■ CHURCH ADDITIONS— Portland, Ore.

Bids will be opened 2 p.m., June 24, in office of Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland, for construction of two steel and concrete additions to Rose City Park Presbyterian Church, N.E. 44th Ave. and Sandy Blvd. Select list of bidders.

Planholders: Blanchard Construction Co., 2546 S.W. Vista Ave.; Robertson, Hay & Wallace, 1801 S.E. Grand Ave.; Teeples & Thatcher, 8850 S.E. Otty; Beebe Construction Co., 1839 N.E. Couch St.; Jones-Balgemann Builders, 2134 N. Flint St.
WB 6-17

★UNION BUILDING ADDITION— Portland, Ore.

Contract will be awarded to Monson & Sivers Co., 5000 S.E. 25th Ave., Portland, on their low of $59,561, for construction of an addition to Carpenters Local No. 226, 7515 N. Brandon St., Portland. Plans by James C. Gardiner, architect, 2185 S.W. 87th Ave., Portland.
WB 6-13. Previous report 5-15

● SCHOOL ADDITION— Portland, Ore.

Bids will be opened 8 p.m., June 30, by School District No. 8Jt., Multnomah County, Edna McLaughlin, clerk, Bonny Slope Grade School, 10351 N.W. Thompson Road, Portland, for construction of one-classroom wood frame addition to the school. Plans with Jensen & Gilham, architects, 2206 N.W. Lovejoy St., Portland. $20 deposit.
WB 6-17

★SCHOOL ADDITION— Portland, Ore.

Award to Serge R. Perrin, 405 Ogden Drive, Oregon City, $21,861, by School District 57 Jt., Washington County, Frances Hall, clerk, Cedar Hills School, 11640 S.W. Parkway, Portland, (near Beaverton), for construction of 1,750 sq. ft. wood frame addition to the multi-purpose room at the school. Plans by Robert C. Douglas, architect, 2041 S.W. 58th Ave., Portland.
WB 6-18. Previous report 6-4

★GRADE SCHOOL ADDITION— Portland, Ore.

Award to Weston Construction Co., 7415 N.E. Glisan St., Portland, $89,966 (basic), plus $1,911 for library shelving, by Rockwood School District No. 27, Multnomah County, 740 S.E. 182nd Ave., Portland, for construction of an addition to North Rockwood Elementary School, 330 N.E. 172nd Ave. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave.
WB 6-18. Previous report 6-11

▲HOME FOR AGED— Portland, Ore.

Bids received June 16 by Mount Saint Joseph's Home for the Aged, S.E. Stark St. and 30th Ave., for a three-story, 72-bed reinforced concrete addition to the Home. Plans by Elmer Zeller, architect, and Joseph W. Heiler and G. Murlin Drury, associate architects, 2014 N.E. Sand Blvd., Portland. LOW BIDS: A. N. Minden Co., 11320 N.E. Mary St., Portland, $603,408; A. V. Petersen Co., 2827 N.E. Glisan St., Portalnd, $615,611. HI: Reimer & Jolivette, Builders Exchange Bldg., Portland, $624,505.
WB 6-18. Previous report 6-11

● STEEL BUILDING— Salem, Ore.

Bids to be opened 10 a.m., June 24, by Marion County Court, room 110, Courthouse, Salem, for a steel storage building. Plans with county engineer, Courthouse.
DC 6-11

▲COTTAGE DORMITORIES— Salem, Ore.

Bids opened June 16 by Oregon State Board of Control, 124 Capitol Bldg., Salem, for constructing three cottage dormitories at Oregon Fairview Home, near Salem. Plans by Wilmsen & Endicott, architects, 863 12th Ave. E., Eugene. LOW BIDS: Vik Construction Co., 1060 Madisoln St., Eugene, $558,701; E. E. Batterman, 147 N. Commercial St., Salem, $561,200; Viesko & Post, 1440 12th St., Salem, $561,400.
CP 6-18. Previous report 6-4

★HIGH SCHOOL STARTING UNIT— Sheridan, Ore.

Award to Johnston & Meloy, 1215 Liberty St., Salem, $90,000, by School District No. 48-14, Yamhill County, Mrs. Edna Moore, clerk, Faulconer Grade School, Sheridan, for construction of separate addition to the high school for eventual complete new high school building. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland.
WB 6-14. Previous report 6-3

WASHINGTON

▲COMMUNITY HOSPITAL— Aberdeen, Wash.

Bids received by Grays Harbor Community Hospital, Aberdeen, Paul Bloomquist, chairman, for constructing reinforced concrete, 58,200 sq. ft., L-shaped hospital on Switzer Hill, 6th and Saturday Way, Aberdeen. Plans by John W. Maloney, architect, 754 Central Bldg., Seattle.

Six bids received at June 17 bid opening, with basic figures given. LOW BID: Cawdrey & Vemo, Inc., 3601 Fremont Ave., $1,384,000. OTHER BIDS: Wick Construction Co., 720 N. 35th, $1,394,500; James I. Barnes Construction Co., 1019 Madison, $1,399,150; W. G. Clark Construction Co., 408 Aurora Ave., $1,399,615; Grays Harbor Construction Co., 512 S. Park, Aberdeen, $1,415,303; Andy Johnson & Co., 517 Simpson, Aberdeen, $1,446,473. Of Seattle except as noted. PD 6-18. Previous report 6-6

★FISH STATION CONSTRUCTION— Abernathy Creek, Wash.

Award to Quoidbach Construction Co., 1422 Commerce, Longview, $294,415, by Fish and Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, for constructing reinforced concrete structures, raceway ponds, holding pond and fish ladder, intake structure screen chambers, hatchery building, residence quarters, spawning channel, concrete reservoir, sewer, water system, roads, miscellaneous related work at Abernathy Creek Fish Cultural Station, 15 mi. west of Longview, Cowlitz County, Wash. WB 6-13. Previous report 5-13

●BELLEVUE CONGREGATIONAL CHURCH— Bellevue, Wash.

Bid opening extended from June 16 to 5:30 p.m., July 8, by Bellevue Congregational Church, Ben Bradford, pastor, 8th Ave. and 108th N.E., Bellevue, for constructing two-story, 110'x73' sanctuary to be attached to existing church structure, above address. Plans with Lindahl & Bacon, architects, 20 102nd N.E., Bellevue. Separate contracts for general, mechanical and electrical work. $50 deposit for general, $20 deposit each for mechanical and electrical. 5% bid bond. PD 6-17. Previous report 6-13

●SENIOR HIGH SCHOOL— Bellevue, Wash.

Bids will be received until 2 p.m., July 15, by Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue, for construction of a five-building, 116,000 sq. ft., campus plan senior high school north of main entrance to Lake Hills, on east side of 140th S.E., immediately south of Main St., Bellevue. Plans include two classroom buildings, a shop building, an administrative building, and a gymnasium. Architects and engineers: Naramore, Bain, Brady & Johanson, 904 7th Ave., Seattle.

Glued laminated arches in gymnasium roof, flat built-up roof, 3"x6" t&g decking, glued laminated beams in other structures; rigid insulation in roof; concrete slab-on-grade; pumice masonry unit exterior; steel sash (aluminum alternate); exposed pumice block partitions acoustical tile ceilings; asphalt tile flooring; steam heating from central plant, serving mechanical room in each building through hot air unit heaters; fluorescent lighting, some incandescent; parking area for 275 cars to be bid on either asphaltic concrete or gravel surfacing. PD 6-14

CLUBHOUSE, SWIMMING POOL— Bellevue, Wash.

(Estimated cost $100,000)

Construction is underway by Bell & Valdez, 14212 Lake Hills Blvd., Bellevue, on the 35'x90', two-story Lake Hills Clubhouse on the corner of Lake Hills Blvd. and 154th N.E., Bellevue. A heated 42'x75' swimming pool is part of this project, and is now under construction by Pacific Pools Co., 815 Blanchard, Seattle. Future construction will include recreational facilities. PD 6-13. Previous report 5-6

●ELEMENTARY SCHOOL— Bellevue, Wash.

Bids to be opened 2 p.m., July 1, by King County School District No. 405, Bellevue, in the office of the architect, Naramore, Bain, Brady & Johanson, 904 7th Ave., Seattle, for constructing the seven-building, 20-classroom Sunset Elementary School on a site on the east side of 132nd N.W. south of Highway No. 10. Separate bids on general, mechanical and electrical. Plans with architects. $35 deposit.

Seven buildings total 38,200 sq. ft.; slab-on-grade; wood frame with glass and plywood exterior walls; joist and sheating roof frame, built-up roofing, rigid insulation; steel sash; brick partitions; drywall and hardboard with acoustical tile ceilings; asphalt and ceramic tile flooring; incandescent lighting; perimeter hot air heating from individual furnaces. Two playsheds will be of wood with an alternate of plastic. Covered walks to be of plastic. DM 6-13

APARTMENT— Bellevue, Wash.

(Estimated cost $300,000)

Construction may be started about July 1 by Charles J. Epping, Route 3, Snohomish, contractor and one of the owners, on a 40-unit apartment building on 100th N.E. and N.E. 1st, Bellevue. Working drawings are underway by Lawrence & Hazen, architects, 8626 Roosevelt Way, Seattle. Plans include a swimming pool and a barbecue. PD 6-11

▲HOME ECONOMICS ROOM REMODELING Bellingham, Wash.

Six bids received by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, for remodeling home economics room at Bellingham High School. Architect: Richard Stradling, Herald Bldg., Bellingham. Bids opened June 13. TWO LOW: Emil Olsen Co., 2305 South St., Bellingham, $17,190; Art Henderson Construction Co., Sunset Bldg., Bellingham, $19,495. HI: Walker & Florence, 319 E. Champion, Bellingham, $19,000. ET 6-17. Previous report 6-10

STUDENT UNION BUILDING— Bellingham, Wash.

Bids will be called the latter part of July, by Western Washington College of Education, Dr. W. W. Haggard, president, for construction of the four-story, 82'x117' student union building in the 500 block on High St., across from the knoll in front of the Old Main building in Bellingham. Working drawings are near completion by Bassetti & Morse, architects, Tower Bldg., Seattle. PD 6-17. Previous report 3-29

★BUILDING ADDITIONS— Blaine AFS, Wash.

Award to Nelson Construction Co. of Ferndale, Box 514, Ferndale, $46,868, by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for construction of a 1,100 sq. ft. addition to Transmitter Bldg. and 700 sq. ft. addition to Receiver Bldg. at Blaine Air Force Station; ENG-45-108-58-118. SP 6-14. Previous report 5-16

▲FAMILY HOUSING— Blaine AFS, Wash.

Bids received by U.S. Air Force, Paine AFB, for construction of 18 family housing units at Blaine Air Force Station; Inv. No. 58-97.

Four bids received for June 12 opening. TWO LOW: Van Werven & Van Andel, 517 Front St., Lynden, $255,198; Levage Construction Co., Box 2355, Parkland, $257,824. HI: Art Anderson Construction Co., Sunset Bldg., Bellingham, $353,829. SP 6-13. Previous report 5-21

STORE BUILDING— Bothell, Wash.

Plans will be completed in July or August by T. M. Carstensen Co., designers, Alaska Bldg., Seattle, on a 41'x250' concrete block or tilt-up concrete structure to house five businesses, to be located on land now occupied by Keeney Lumber Co. in Bothell. Mike Phillips, c/o Carstensen Co., is one of co-owners. Also planned is a 41'x256' asphaltic concrete parking lot. MH 6-3

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PA&B-6/58

SCHOOL ADDITIONS— Bothell, Wash.
($349,586 Senior High School; $411,659 Junior High School)

Working drawings will be started early in July by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle, for a junior high school addition and a senior high school addition, for Bothell School District No. 46, Box 128, Bothell. PD 6-11. Previous report 3-29

▲SERVICE, STORAGE BUILDINGS— Burbank, Wash.

Four bids received by U. S. Fish and Wildlife Service, 1001 N.E. Lloyd Blvd., Portland, Ore. (Box 3737), for constructing masonry service building, one masonry paint and oil storage building, one wood frame two-car garage, domestic water supply line and sewage system at McNary National Wildlife Refuge near Burbank. Bids opened June 11. TWO LOW: Raymond J. Britton, Richland, $31,720; George A. Grant, Pasco, $33,400. HI BID: Hughes Construction Co., Kennewick, $36,440.

WB 6-13. Previous report 5-28

●BUS SHED ADDITION— Carson, Wash.

Bids will be opened 8 p.m., July 1, by School District No. 30, Skamania County, Emelia E. Robinson, clerk, Carson Grade School, Carson, for construction of a bus shed addition. Plans with Hayslip, Tuft Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. $25 deposit. Certified check, cashier's check or bid bond 5%.

WB 6-17

POSTOFFICE— Chelan, Wash.

Bids will be called late in June on constructing new postoffice at Johnson and Emerson in Chelan, according to John Croy, postmaster, Chelan. DC 6-11

●■ NURSING HOME— Clarkston, Wash.

Bids will be opened 2 p.m., June 30, in the office of Putnam & Dimke, architects, 412 6th, Clarkston, for construction of a nursing home for Clarkston Rest-Haven, Inc. Plans with the architects.

Planholders: Commercial Builders, Box 14, Moscow, Idaho; Cassel Builders, 1301 Main, Clarkston; T. R. Pope Construction Co., 2045 Riverside Drive, Clarkston; Wilbur Pearson, 713 Vista, Lewiston, Idaho; Kenaston & Huntley, 811 11th Ave., Lewiston; Best Way Builders, Lewiston; G. Dodgen, Colfax; Rodney Russel, Colfax. LL 6-17

▲MAINTENANCE SHOP—Fort Lewis, Wash.

Seven bids were received June 17 by Corps of Engineers, Seattle, for constructing reinforced concrete repair shop, inspection building, asphaltic concrete paving, sewers and other facilities at Fort Lewis; ENG-58-162. LOW: Cascade-Olympic Construction Co., Shelton, $885,188; Nelson Construction Co., Tacoma, $897,185. HI: G. Kirkebo, Tacoma, $970,037. Govt. estimate, $1,013,936.

DM 6-18

▲FAMILY HOUSING— Geiger AFB, Wash.

Bids received by U.S. Air Force, Procurement Office, Geiger AFB on June 13, for construction and site development of 72 contractor-designed standard family housing units in vicinities of Baker, Ore. (27 units); Kalispell, Mont., (27 units); Othello, Wash. (18 units); are being held for study. Bid results are listed below.

Baker, Ore.—Allied Construction Co., Box 124, Parkwater Station, Spokane, $371,400; Witham Bros., Baker, $372,914; Harney Homes, Burns, $405,058.

Kalispell, Mont.—Crescent Construction Co., E. 6022 Mansfield, Spokane, $388,766; E. F. Mathelich Construction Co., 222 Crestline Drive, Kalispell, Mont., $439,375; J. W. Watts Construction Co., Salem, Ore., $459,780; Brazina Construction Co., Rapid City, S.D., $563,500.

Othello, Wash.—Olympic Construction Co., Box 659, Moses Lake, $261,143; Crescent Construction Co., Spokane, $273,483; Earl LeRoy Kelly, Walla Walla, $381,472; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata, $295,000; Randolph Construction Co., Ephrata, $327,035.

DC 6-17. Previous report 6-10

▲COMMISSARY STORE— Geiger AFB, Wash.

Bids received June 17 by Corps of Engineers, Seattle office, room 200, Bldg. No. 1, 1519 S. Alaskan Way, Seattle, for constructing 7,527 sq. ft. reinforced concrete frame Commissary Store with adjacent asphaltic concrete paved parking areas at Geiger AFB; ENG-45-108-58-158.

Nine bids received at June 17 bid opening. LOW BIDS: Purvis Construction Co., Box 64, Yardley, $134,028; Gus Bouten, N. 627 Napa, Spokane, $136,269. HI: P & B Construction Co., Inc., E. 8903 Main, Spokane, $155,099. Government estimate $163,898.

PD 6-18. Previous report 5-22

CHURCH— Gig Harbor, Wash.

Plans will be complete soon by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma, for a one-story, 126'x81', 7,526 sq. ft. church for St. Nicholas Parish at Gig Harbor. Bids will be called by Most Rev. Thomas A. Connolly, archbishop, Seattle.

DM 6-17

OFFICE BUILDING— Kennewick, Wash.
(Estimated cost $60,000)

Construction is underway by Grant Construction Co., 831 W. Octave, Pasco, on a one-story, six-unit, office building at W. Albany Ave. and Vista Way in Kennewick.

DC 6-14

▲BUILDING ADDITIONS—Keyport, Wash.

Bids received by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for constructing wood frame post and beam additions to Range Computer, Bldg. No. 210, Whitney Point, Dabob Bay, Hood Canal, Naval Torpedo Station, Keyport; Spec. No. 18316/58.

Five bids received at June 17 bid opening. LOW BIDS: Winterburn Construction Co., Box 202, Port Townsend, $32,475; Selmer Paulson, Station A, Box 1392, Bremerton, $34,349. HI: Wayne Construction Co., Inc., 3810 Stone Way, Seattle, $41,045.

PD 6-18. Previous report 6-3

★POWER BUILDING— Makah AFS, Wash.

Award to DelGuzzi, Inc., 1020 E. Front, Port Angeles, $121,200, by Corps of Engineers, Seattle, for constructing 3,000 sq. ft. power building at Makah AFS; ENG-45-108-58-137. DM 6-18. Previous report 6-11

★ELEMENTARY SCHOOL— Maple Valley, Wash.

Awards to J. A. Park, Route 1, Box 740A, Winslow, $218,747 (general), Mac Boyker Plumbing and Heating, 202 1st S., Kent, $99,856 (mechanical) and Hooper Electric Co., 215 Marion, Seattle, $30,675 (electrical), by Tahoma School District No. 276, Maple Valley-Hobart Road, Maple Valley, for constructing two-unit, 25,000 sq. ft., one-story Tahoma Elementary School. Architects: Mallis & DeHart, Lyon Bldg., Seattle.

SP 6-13. Previous report 5-24

RESIDENCE— Mercer Island, Wash.
(Estimated cost $30,000)

Working drawings will be complete about July 1 by Ira E. Cummings, architect, 1123 E. John, Seattle, on a one-story and daylight basement, 1,836 sq. ft. (each floor) residence in Mercerwood, Mercer Island, for Frank Tretter, owner. PD 6-17

●DWELLING— Mercer Island, Wash.

Bids will be opened 2 p.m., July 3, by Richard A. Maginot, owner, in office of Wortman, Wilkins & Ellison, architects, 818 2nd Ave., Seattle, for construction of a one-story and daylight basement, residence on Mercer Island. Plans with the architects.

Pitched roof, t&g decking, glued laminated beams; rigid insulation in roof; wood frame; extensive plate glass stopped in wood; vertical cedar siding; brick fireplace facing; drywall partitions; vinyl, some slate flooring, carpeting; hardwood cabinets; laminated plastic counter tops; hot air heating system. PD 6-13

▲REMODEL SCHOOL ROOM— Mercer Island, Wash.

Three general, four mechanical and three electrical bids were submitted June 12 to School District No. 400, Mercer Island for remodeling science room at Mercer Island High School. Architect: Bassetti & Morse, 1602 Tower Bldg., Seattle. GENERAL: Roxbury Construction Co., 616 Mercer, Mercer Island, $10,355; E. F. Shuck, 535 Pontius, Seattle, $11,898; Rasmussen & Funk, 2911 Ave., Seattle, $12,145. MECHANICAL: Bellevue Plumbing and Heating, Bellevue, $3,485; Boyker Plumbing and Heating, 2627, Eastlake, $3,685; C. F. Inc., 4401 Wallingford, Seattle, $4,[illegible] Varre Plumbing and Heating Co., Stone Way, Seattle, $4,496. ELECTRICAL: Industrial Electric Co., 1828 Yale, Seattle, $4,795; City Electric & Fixture Co., N., Seattle, $5,290; Donald W. Close Co., 2921 13th S.W., Seattle, $5,470.

DM 6-14. Previous report 6-[illegible]

●RESIDENCE— Mercer Island, Wash.

Bid opening extended from June 26 to p.m., July 3, by Donald W. Exner, owner, for construction of a one-story and daylight basement, 1,500 sq. ft. residence on Mercer Island. Bids will be opened in office of Wortman, Wilkins & Ellison, architects, 818 2nd Ave., Seattle.

PD 6-13. Previous report 6-[illegible]

▲COMFORT STATION— Mukilteo, Wash.

Six bids were received June 12 by State Parks and Recreation Commission, 100 Dexter Ave., Seattle, for constructing a comfort station at Mukilteo State Park. LOW: Max Ford, 112 Warren, Snohomish, $11,[illegible]; Stewart-Martens Co., 9414 Stone Ave., Seattle, $12,261; Curtis Construction Co., Granite Falls, $15,425.

DM 6-14. Previous report 6-[illegible]

■ HIGH SCHOOL— Naselle, Wash.

Planholders announced for construction of a high school at Naselle, on which bids will be opened 2 p.m., July 2, by Naselle-Grays River Valley School District No. 155, Pacific County, Naselle. Plans with William Artis Johnson & Associates, architects, 2[illegible] Broadway, Everett.

Planholders: Korsmo Bros., 5944 Lake Grove S.W., Tacoma; C. E. Skinner, Box 70[illegible] Orting; Albert Mittet, 397 Kenalagton, Astoria, Ore.; K. T. Henderson, 1362 Colorado, Longview; J. J. Flaskerud, 1022 [illegible] Longview; Anderson Construction Co., 11[illegible] S. 9th, Tacoma. HH 6-13. Previous report 6-[illegible]

▲COMMUNICATION BUILDING, UTILITIES, ROAD—Okanogan AFS, Wash.

Bids received by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for constructing Gap Filler Facility, including 1,604 sq. ft. base communication building, concrete tower, fuel oil storage tank, road repair and new road, and riprap, Okanogan Air Force Station; ENG-45-108-58-[illegible]

Eleven bids received for June 12 opening. TWO LOW: George Chicha, E. 2917 Sharp, Spokane, $198,012; Goodfellow Bros., Box 1337, Wenatchee, $204,557. HI: R. C. Ward Construction Co., 625 Best Ave., Coeur d'Alene, Idaho, $317,156. Government estimate, $216,977.

SP 6-13. Previous report 5-[illegible]

■ HIGH SCHOOL ADDITION— Omak, Wash.

Planholders announced for constructing one-story and no basement, 11,436 sq. ft. concrete block addition to the high school at Omak. Bids to be opened 8 p.m., June 27, by Omak School District No. 19, James C. Sonstelie, superintendent, at the high school in Omak. Architect: Alvin S. Erickson, architect, Central Bldg., Wenatchee.

Planholders: Sanford Wright, Box [illegible] Everett; P & B Co., Inc., E. 8903 Main, Spokane; Hazen & Clark, W. 108 Boone, Spokane; Sceva Construction Co., N. [illegible] Madelia, Spokane; Peter J. Young & Sons, E. 1211 Columbia, Spokane; Gus J. Bouten, N. 927 Napa, Spokane.

SC 6-14. Previous report 6-[illegible]

●OFFICE BUILDING— Opportunity, Wash.

Bids to be opened 2 p.m., June 24, for construction of an office building in Opportunity, for Modern Electric Water Co. Plans with Henry C. Bertelsen, architect, Empire State Bldg., Spokane. LL 6-17

▲ARMORY EXPANSION— Poulsbo, Wash.

Three bids received by Clyde J. Fenn, Jr., supervising engineer, Department of Gen-

eral Administration, 218 General Administration Bldg., Olympia, for Washington National Guard armory expansion at Poulsbo. Bids opened June 11. BIDS: Merritt Construction Co., Century Bldg., Tacoma, $71,423; Linden Construction Co., Box 109, Bremerton, $79,000; Anderson Construction Co., Box 229, Bremerton, $81,000.
DE 6-13. Previous report 6-6

FOOD MARKET— Prosser, Wash.
Construction underway by E. A. Curtis, Kennewick on a 115'x100' building for Evans Super Duper Market on Bennett Ave. in Prosser.
DC 6-17

DORMITORY REPAIRS— Pullman, Wash.
Plans announced by Board of Regents, Washington State College, Pullman, for repairing and modernizing three-story wood frame women's dormitory known as Stevens Hall at WSC. Work is to be completed by the end of the 1958-59 college year. MH 6-11

★TRADEWELL STORE— Puyallup, Wash.
Award to Baugh Construction Co., 922 Poplar Place, Seattle, no amount released, by Tradewell Stores, Inc., 4103 2nd Ave. S., Seattle, for construction of a 12,000 sq. ft., one-story, concrete-shell roof Tradewell Store between 3rd and 4th Sts., S.W. on the south side of Pioneer Ave., Puyallup. Architect: Welton Becket, Los Angeles, Calif. Supervising Architects: Rushmore & Woodman, J. S. Ditty Bldg., Bellevue. Bids opened May 28.
SP 6-14. Previous report 5-21

■HOSPITAL FACILITY EXPANSION— Renton, Wash.
Planholders announced on constructing 23'x43' addition to and remodeling portion of existing obstetrical wing at Renton Hospital, 4th and Shattuck, Renton. Bids to be opened 10:30 a.m., June 23 by King County Hospital District No. 1 at Renton Hospital. Architect: Johnston & Campanella, 231 Wells, Renton.
Planholders: Strand Inc., 1801 N. 34th, Seattle; Rasmussen & Funk Co., 2811 3rd, Seattle; John P. Hopkins Co. Inc., 4146 Boulevard Place S.E., Mercer Island; W. G. Clark, 408 Aurora, Seattle; Don Williams & Co., 314 Fairview N., Seattle; Busch Construction Co., 15832 96th S., Renton; Herb Hackman, 11015 116th S.E., Renton; Shaff Construction Co., 1510 Marion, Renton.
DM 6-14. Previous report 5-27

▲RADIOCHEMISTRY FACILITY— Richland, Wash.
Five bids received by Atomic Energy Commission, Richland, for constructing a high level radiochemistry facility addition to an existing Radiochemistry Bldg. in the 300 Area at Hanford Works. Bids opened June 12. TWO LOW: B. D. Bohna & Co., 515 Market St., San Francisco, $574,504; John P. Hopkins, Box 247, Mercer Island, Wash., $669,000. HI: W. G. Clark Construction Co., 408 Aurora, Seattle, $869,000. AEC estimate, $673,000.
SP 6-13. Previous report 5-27

▲MUSICIANS BUILDING— Seattle, Wash.
Six bids received by Musician's Club, Local 76, Chet Ramage, business representative, 309 Cedar St., Seattle, for construction of a one-story and partial basement, 7,000 sq. ft., club building on 3rd Ave. and Cedar Seattle. Plans by Ibsen A. Nelsen and Russell Sabin, architects, 1314 E. 43rd, Seattle. Figures are basic plus alternates. LOW BID: Don Williams & Co., 314 Fairview N., $101,804. OTHER BIDS: O. E. Turnquist, 1305 Republican, $105,360; C.B.S. Construction Co., 11115 7th N.W., $105,451; Farwest Construction Co., 608 W. 44th, $106,604; Nels Hedin, 2312 Federal, $109,725; W. G. Clark, Construction Co., 408 Aurora Ave., $127,184. Of Seattle. PD 6-17. Previous report 5-31

APARTMENT— Seattle, Wash.
Construction is underway by N. J. Zorich, owner-contractor, 2040 Blue Ridge Drive, Seattle, on a 22-unit, three-story and partial basement apartment on E. Greenlake Way, near the playfield. Plans by Ira E. Cummings, architect, 1123 E. John, Seattle.
PD 6-17

■BUILDING CONVERSION, PRE-FABRICATED BUILDING— Seattle, Wash.
Planholders announced for conversion of 36,000 sq. ft. of space in Bldg. 2-10, and construction of a metal pre-fabricated, 40'x60' building for P.A.D. IM 99A welded body sections shop. Bids will be opened 2 p.m., P.S.T., June 23, by Boeing Airplane Co., A. C. Vigna, 18-13 Boeing Airplane Co., Seattle Division, Box 3703, Seattle. Plans with Austin Associates, engineers, 2930 4th Ave. S., Seattle.
Planholders—GENERAL: Brazier Construction Co., 309 Pontius; Alton V. Phillips Co., 4055 21st W.; Sound Construction and Engineering Co., 1300 Aloha. MECHANICAL: West Coast Heating and Plumbing, 4125 9th N.W.; ELECTRICAL: Northwest Electric Co., 420 Yale N.; Fischbach & Moore, Inc., 3201 Fremont; Industrial Electric Co., 1828 Yale. Of Seattle.
PD 6-17. Previous report 6-10

RESIDENCE— Seattle, Wash.
Construction will be started about July 1 by Walter C. Peterson, contractor, 161 S.W. 192nd, Seattle, on a one-story and daylight basement, 1,800 sq. ft. (each floor), residence in Normandy Park. Plans by Ira E. Cummings, architect, 1123 E. John St., Seattle.
Masonry veneer, cedar siding exterior; low pitched built-up roof, aluminum foil and rock wool insulation in roof; aluminum sash, wood sash; drywall partitions; wood paneling; hardwood, vinyl plastic, ceramic tile, some slate flooring, carpeting; two fireplaces; forced warm air heating.
PD 6-17

▲MOVING PORTABLES— Seattle, Wash.
One complete and one partial bid received by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for moving various portables to different locations in the school district. Bids opened June 16. BIDS: Ballard Transfer Co., 2417 Market St., Seattle, $24,738 (complete bid); Ryder & Rolstad, 5216 Wallingford, Seattle, $15,700 (partial bid).
PD 6-17. Previous report 6-11

▲OFFICE BUILDING— Seattle, Wash.
(Estimated cost $160,000)
Bids on constructing National Cash Register Co. two-story and basement, 50'x130' office building on northeast corner of Fairview N. and E. Republican St., Seattle, will not be released for another week. The proposals were received up to midnight June 16 by Nationwide Properties, Inc., 191 Broadway, Paterson, N.J. Plans by Tischler & Comeno, architects, Paterson, N.J., and James Klontz, associate architect, 7th floor Dexter Horton Bldg., Seattle.
PD 6-17

●■APARTMENT— Seattle, Wash.
Bids from a select list of bidders will be received until 2 p.m., June 23, by the owners, in office of Ted LaCourse, architect, 1826 Broadway, Seattle, for construction of the four-story, 30-unit Olympiad Apartment at 714 Lakeside S., Seattle. After contract has been awarded, an addendum will be issued involving construction by general contractor, of a wood ramp and deck, boat moorage facilities, and 16'x37' heated fiberglass swimming pool.
Type 3 construction; pre-stressed, precast concrete post-tensioned beams, 40' to inner harbor line; fiberglass insulation, 3" in roof, 1½" in exterior walls; masonry, SCR, porcelain-enamel steel spandrels on exterior; sliding aluminum windows, doors; plaster or drywall partitions (alternate bids); carpeting, composition tile, ceramic tile flooring; birch cabinets; electric baseboard heating on separate meters; parking area of asphaltic concrete for approximately 20 cars; fully landscaped.
Planholders: Baugh Construction Co., 922 Poplar Place; Puget Construction 1811 Bush Place; Strand, Inc., 1801 N. 34th; Century Construction Co., 2301 Western; C. Hopkins & Associates, 11728 Aurora; Van de Water, 512 N. 64th; Enetai Construction Co., J. S. Ditty Bldg., Bellevue. Of Seattle except as noted.
PD 6-14

★HOSPITAL ALTERATIONS— Seattle, Wash.
Award to Noel Construction Co., 11014 Main St., Bellevue, $26,507, by General

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Services Administration, 126 Federal Office Bldg., Seattle, for miscellaneous alterations to U. S. Public Health Service Hospital, 14th Ave. S. and Judkins, Seattle; Proj. SEA-838. SP 6-14. Previous report 6-12

● NORTH SEATTLE HIGH SCHOOL— Seattle, Wash.

(Estimated cost $3,766,400)

Bids will be opened 2 p.m., July 22, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for construction of the 1,500-student, 200,000 sq. ft., one-story North Seattle High School near Ashworth Ave. and N. 130th in Seattle. Architects and engineers: Naramore, Bain, Brady & Johanson, 904 7th Ave., Seattle.

Plans and specifications for general contract available with architects on and after June 18, for mechanical and electrical contracts on and after June 26. $50 deposit.

Reinforced concrete; precast and prestressed columns, beams in classroom portion, thin-shell construction in gymnasium and auditorium; fiberglass roof insulation; aluminum sash; 3' pre-cast shale concrete, exposed colored aggregate walls to sills; brick and shale block end walls; asphalt tile flooring; hot air heating with decentralized fan rooms, under floor tunnels to perimeter distribution; asphaltic concrete walks, driveways, parking areas; paved interior courts. PD 6-14. Previous report 5-3

★ELEMENTARY SCHOOL ADDITIONS— Seattle, Wash.

Awards announced by Shoreline School District No. 412, E. 158th and 20th N.E., Seattle, for construction of a two-building, 18,623 sq. ft. addition to Sunset Elementary School at 10th Ave. N.W. and W. 178th, Seattle. Architects: Young, Richardson & Carleton, Central Bldg., Seattle. AWARDS—GENERAL: Puget Construction Co., Inc., 1811 Bush, Seattle, $184,981. MECHANICAL: Lincoln Mechanical Contractors, 714 Adams, Seattle, $55,083. ELECTRICAL: Tullar Power Construction Co., 3214 W. McGraw, Seattle, $18,577. SP 6-14. Previous report 5-23

● RESIDENCE— Seattle, Wash.

Bids are being received for Lester Christenson, owner, in office of Ira E. Cummings, architect, 1123 E. John St., Seattle, for construction of a 1,450 sq. ft., one-story and partial daylight basement residence on E. 117th off Bothell Way, Seattle. $5 deposit.

Wood frame; pitched built-up roof, aluminum foil and rock wool insulation in roof; cedar siding; aluminum sash, glass stopped in wood; linoleum, hardwood, some slate flooring, carpeting; drywall partitions; hardwood cabinets; laminated plastic counter tops; forced warm air heating; two fireplaces. PD 6-14

● SHOPPING CENTER— Seattle, Wash.

Bids will be called from a select list of bidders the latter part of June by Mansfield Thriftway, owner, for construction of a 23,000 sq. ft., one-story market and store building at 120th and Des Moines Way, Seattle. Plans by Wisbeck & Konzen, architect and engineer, 564 Broad, Seattle. PD 6-13. Previous report 5-9

APARTMENT— Seattle, Wash.

Working drawings have been completed by McCool, Morgan & Associates, architects, 110 Eastlake, Seattle, for a 28-unit, three-story and no basement, 21,000 sq. ft. apartment at Woodlawn Ave. and Latona, for Mywood Corp., owner-contractor. Construction may start at the end of June. A 12-unit apartment is about half completed on same site, by same owner.

Wood frame; flat built-up roof; batt type insulation in roof; brick veneer, Marblecrete exterior; aluminum sash; drywall partitions; vinyl tile, ceramic tile, carpeting; birch cabinets; Formica counter tops; wood balconies with aluminum sliding doors; electric baseboard heating. PD 5-31

APARTMENT— Seattle, Wash.

(Estimated cost $125,000)

Working drawings have been completed by George Bolotin, architect, 915 E. Pine, Seattle, for a 12-unit two-story apartment to be constructed at 30th W. and W. Dakota, Seattle, for John Rock, owner.

Wood frame; masonry veneer exterior; flat built-up roof, rigid insulation in roof; drywall partitions; hardwood, resilient tile flooring; electric heating; asphaltic concrete parking area. PD 6-3

CHURCH ADDITION— Seattle, Wash.

Construction under supervision of a church appointed superintendent, will be started late in June by Church of Jesus Christ of Latter Day Saints, second ward, 4001 44th S.W., Seattle, for a 9,360 sq. ft., one-and two-story addition to the existing building. Plans by Clifford Dobson, architect, 4115 University Way, call for concrete-slab-on-grade; metal windows; pumice block and exposed brick walls; some plaster partitions; asphalt tile and maple flooring; forced warm air heat, some hot water radiation.

DM 6-3. Previous report 7-17, '57

APARTMENT— Seattle, Wash.

Construction may be started late in July, by Schmid Construction Co., one of the owners, on a five-story, 35-unit, reinforced concrete apartment at Garfield St. and Taylor Ave., Seattle, for Garfield Terrace Corp., Seattle, developer and owner. Working drawings near completion by Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle.

Fireproof construction; basement garage; flat built-up roof, rigid insulation in roof; aluminum sash; plaster partitions, metal lath; carpeting; vinyl asbestos or vinyl tile, ceramic tile flooring; counter tops of ceramic tile; electric heating. Steel and plaster balustrades on balcony-egress areas are planned. A 15-car asphaltic concrete parking area will supplement the 11-car capacity basement garage.

PD 6-12. Previous report 5-15

■ CHURCH REMODELING— Seattle, Wash.

Planholders announced for remodeling dining hall and nursery in the University Methodist Church, including partition work, ventilating system, built-in cribs in nursery. Bids will be opened 2 p.m., June 25 by University Methodist Temple, 4231 15th N.E., Seattle. Plans with Rich & Trimble, architects, 4507 University Way, Seattle.

Planholders: G. B. Gwinn, 16716 39th Place N.E.; A. B. Hamlin, 1117 N. 85th; Pitblado Bros., 1102 E. 106th; W. G. Clark Construction Co., 408 Aurora Ave.; E. F. Shuck Construction Co., 535 Pontius. Of Seattle.

PD 6-18. Previous report 6-12

● OFFICE BUILDING— Seattle, Wash.

Bids will be opened 4 p.m., June 27, by Regrade Investors, Inc., 2500 5th Ave., Seattle, owners, for construction of a 6,000 sq. ft., reinforced concrete office building on northeast corner of 5th Ave. N. and John St., Seattle. Plans and specifications with Ibsen A. Nelsen and Russell B. Sabin, architects, 1314 E. 43rd St., Seattle. $35 deposit. Mechanical engineers, Stern & Towne, 615 Lakeview Blvd., Seattle; structural engineers, Worthington & Skilling, Lloyd Bldg., Seattle.

Two-story; flat built-up roof, blanket insulation in roof; concrete decking; three aluminum window walls, fourth wall of reinforced concrete; drywall partitions; asphalt tile, ceramic tile flooring; 14-car asphaltic concrete parking area; central hot water heating system, individual cabinet heaters. Provision is to be made for future installation of air conditioning system.

PD 6-18

● TERRAZZO FLOORING— Sedro-Woolley, Wash.

Bids to be opened 3 p.m., July 2 by Department of Institutions, Olympia for terrazzo flooring at Northern State Hospital Administration and Ward buildings in Sedro-Woolley. Plans with Olympia. DC 6-18

●■ DOCTOR'S OFFICE BUILDING— Shelton, Wash.

Bids to be opened 5 p.m., June 23, in the office of Wohleb & Wohleb, architects, 715 S. Washington, Olympia, for construction of doctors' office building for Shelton General Hospital, Shelton. Plans with the architects.

Planholders: Korsmo Bros., 5944 Lake Grove S.W., Tacoma; Langland Construction Co., 925 Birch, Shelton; Cascade-Olympic Construction Co., Route 2, Box 139, Shelton; A. G. Homann, Box 38, Lacey. BP 6-

● HIGH SCHOOL ADDITION— Soap Lake, Wash.

Bids to be opened 2 p.m., June 30, by Soap Lake School District No. 156, Soap Lake, for addition and alterations to high school at Soap Lake. Plans by George Rasque & Son, architects, Washington Trust Bldg., Spokane. LL 6-

● ELEMENTARY SCHOOL ADDITION— Snohomish, Wash.

Bids will be opened 8 p.m., June 26, by Snohomish School District No. 201, Carl A. Moore, superintendent, 5th and D streets, Snohomish for constructing one-story, 7,000 sq. ft. six-classroom addition to Emerson Elementary School, Route 2, Snohomish. Plans with James Klontz & Associates, architects, Dexter Horton Bldg., Seattle. Separate bids on general, mechanical and electrical. $15 deposit.

Concrete construction to sill; brick veneer end walls; glued laminated beams; 3' Mo aluminum sash; 1" rigid insulation in roof, reflecting insulation in outer walls; plaster partitions on clip-mounted lath; concrete floors to be covered with flooring by owner; heating from existing low pressure steam heating. PD 6-13. Previous report 5-

HIGH SCHOOL— Sumner, Wash.

(Estimated cost $973,000)

Plans will be completed in July by Lee Pearson & Richards, architects, 340 S. Stadium Way, Tacoma, on high school facility in Sumner. Bids will be called by Sumner School District No. 320, 1625 Main St., Sumner. Plans call for built-up roofing; asphalt tile flooring; oil burning heating unit. DM 6-

SAFEWAY STORE— Sumner, Wash.

A new store will be constructed in the near future by Safeway Stores Inc., on newly purchased site in the 800 block bounded by Maple, Alder and Kinsman in Sumner. DC 6

★EDUCATION ANNEX— Tacoma, Wash.

Awards announced by Pacific Lutheran College, Parkland, for a social education building annex. Architects: Johnson-Austin Associates, 8810 Bridgeport Way, Tacoma. AWARDS—GENERAL: Perry Construction Co., Federal Way, $74,000. MECHANICAL: Weber Plumbing and Heating, 110 N. Tacoma Ave., Tacoma, $21,766. SC 6-

★SCIENCE HALL ADDITION— Tacoma, Wash.

Awards announced by Pacific Lutheran College, Parkland, for alterations and additions to Science Bldg. at PLC. Architects: Lea, Pearson & Richards, 340 Stadium Way, Tacoma. AWARDS—GENERAL: Standard Construction Co., 315 E. 25th, Tacoma, $97,946. MECHANICAL: Bergh-Gray, 709 Pacific Ave., Tacoma, $36,760. ELECTRICAL: Ault Electric Co., 4625 N. Division, Tacoma, $16,464. LAB EQUIPMENT: Northern School Supply Co., 2603 1st, Seattle, $48,408. SC 6-14. Previous report 6-

★SAFEWAY STORE— Tacoma, Wash.

Award to Purvis Construction Co., Inc., 1525 Bay, Tacoma, by Safeway Stores, Inc., 1260 4th Ave. S., Seattle, for construction of a new Safeway store at N. 25th and Proctor, Tacoma. Plans by Stewart & Lamberg, architect and engineer, 608 S. Oxford, Tacoma. SP 6-13. Previous report

WAREHOUSE ADDITION— Walla Walla, Wash.

Walla Walla Board of Adjustment has approved a petition of Whitman College to build an addition to the college warehouse at Isaacs and Penrose. DC 6

MEDICAL CLINIC— Wenatchee, Wash.

Bids will be called in early July by Wenatchee Medical Clinic, Inc., for construction of a 23,100 sq. ft., two-story plus partial basement medical clinic on 9th and Chelan, Wenatchee. Working drawings are under

way by Naramore, Bain, Brady & Johanson, architects, 904 7th Ave., Seattle. Electrical engineer, Thomas Sparling, and mechanical engineers, Sterne & Towne, 615 Lakeview Blvd.; structural engineers, Worthington & Skilling, Lloyd Bldg., Of Seattle.
PD 6-4. Previous report 4-25

★BUS SHOP, SCHOOL ALTERATIONS— Winslow, Wash.

Awards announced by Bainbridge Island School District No. 303, Winslow, for construction of concrete block bus maintenance building and alterations to Senior High School at Winslow. Architects: Mallis & DeHart, Lyon Bldg., Seattle. Figures negotiated. AWARDS—BUS SHOP: Anderson Construction Co., Box 229, Bremerton, $39,450. HIGH SCHOOL: Linden Construction Co., Box 109, Bremerton, $66,200.
SP 6-13. Previous report 5-17

★LODGE ADDITION— Yakima, Wash.

Award to Gilbert H. Moen, 516 S. 5th, Yakima, $88,880 by Eagles Lodge, 307 W. Chestnut, Yakima, for construction of 14,000 sq. ft. second story addition to the lodge building. Architect: Gochnour & Marble, Miller Bldg., Yakima.
IG 6-14. Previous report 5-22

●BUILDING ALTERATIONS— Yakima, Wash.

Bids will be opened 3 p.m., June 30, by General Services Administration, room 126, Federal Bldg., 909 1st Ave., Seattle, for alterations and improvements to Bldg. G5 and F, Federal Civil Defense Administration Warehouse, 1011 S. 3rd St., Yakima; Proj. No. SEA-1148. Plans with above office.
SP 6-17

BOWLING ALLEY— Yakima, Wash.
(Estimated cost $77,000)

Construction is underway by W. B. Edmiston, 215 S. 32nd, Yakima, on the Lincoln Lanes, Inc., bowling alley at 205 Pacific Ave. Building is Butler type with concrete floors.
IG 6-17. Previous report 3-27

IDAHO

●HOSPITAL— Arco, Idaho
(Estimated cost $180,000)

Bids to be opened June 30 by Butte County Commissioners, Courthouse, Arco, for constructing 10-bed hospital for the Lost River Valley Hospital Association, Inc., Arco. Plans with C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls.
DC 6-18. Previous report 5-2

●SCHOOL ADDITION— Arco, Idaho
(Estimated cost $45,000)

Bids to be opened June 30 by Joint Class A School District No. 111, Irvin W. Spencer, superintendent, Arco, for constructing a front entrance and two additional classrooms to the present high school building, to provide a junior high school area. Plans by C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls.
DC 6-18. Previous report 6-17

★ELEVATOR REPLACEMENT— Boise, Idaho

Award to Babbitt Construction Co., Box 4038, Boise, $87,911 by Veterans Administration, Tower Bldg., Seattle for replacement of two elevators with two oildraulic electric passenger elevators in Bldg. Nos. 27 and 67, Veterans Administration Center, Boise; Proj. No. 11-4072. DM 6-14. Previous report 5-22

HOSPITAL— Burley, Idaho
(Estimated cost $900,000)

Working drawings nearing completion by C. A. Sundberg & Associates, architects, 111 E. 16th St., Idaho Falls, for a one-story, 50-bed, fireproof hospital structure to be constructed on the northwest corner of a 15½-acre site in Burley. Bids will be taken by Cassia County Commissioners, Courthouse, Burley. GH 6-17. Previous report 2-5

STUDENT CENTER— Caldwell, Idaho
(Estimated cost $135,000)

Plans will be completed soon by Hummel, Hummel & Jones, architects, 1324 Idaho, Boise, on a one-story, 11,224 sq. ft. student center building for College of Idaho, Caldwell. Bids will be called later in the summer by Dr. Tom Shearer, president of the college.

Concrete footings, foundations; frame walls; concrete floor; flat roof; timber beams; frame partitions; steel windows; brick veneer exterior; plaster on gypsum lath interior partitions; steel windows; brick veneer exterior; plaster on gypsum lath interior partitions; asphalt tile flooring; acoustical ceilings; wood doors and cabinets; folding doors; hot water, gas fired heating system. DM 6-17. Previous report 5-2

ELEMENTARY SCHOOL— Caldwell, Idaho
(Estimated cost $150,000)

Bids will be opened about July 7 by School District No. 132, Caldwell, for constructing a one-story and no basement, 212'x72', solid masonry, 13-classroom addition to Washington Elementary School in Caldwell. Architect: Dropping, Kelley & Finch, 601 Idaho Bldg., Boise.

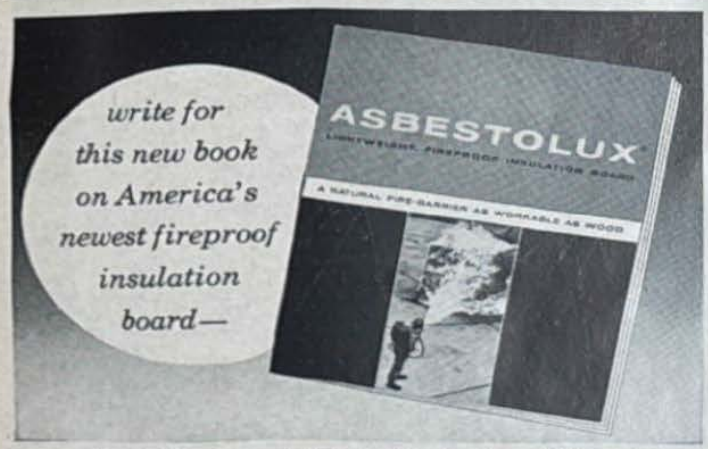
Reinforced concrete footings and foundations; concrete slab floors; timber and steel supporting structures; flat roof, glued laminated; masonry partitions; aluminum sash; exposed masonry partitions; asphalt tile flooring; acoustical ceilings; blackboards; rigid insulation in roof.
SP 6-11. Previous report 5-14

★BANK BUILDING— Cottonwood, Idaho

Award to Gus Larkin, 1119 8th, Lewiston, (contract price not announced) by Idaho First National Bank for a 3,300 sq. ft. brick building to house a branch bank. Architect: Hugh Richardson, Weisgerber Bldg., Lewiston.
DC 6-18

●WAREHOUSE-OFFICE MODIFICATION Idaho Falls, Idaho

Bids to be opened 3 p.m., June 25, by Atomic Energy Commission, 550 2nd St., Idaho Falls, for modifying existing frame 1,200 sq. ft. OMRE warehouse-office building, National Reactor Testing Station,



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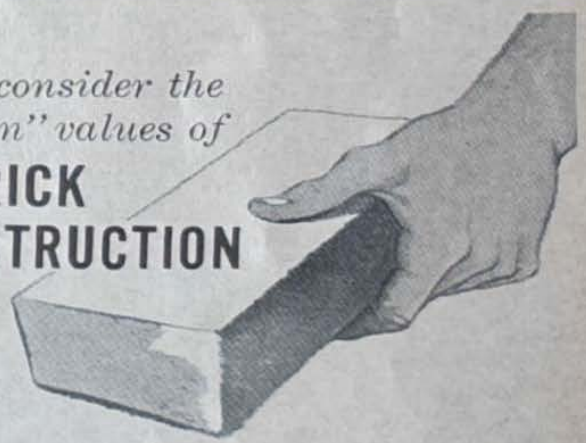

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Idaho; Inv. No. AT(10-1)-963. Plans with above office. SP 6-14

★**LABORATORY, SERVICE BUILDING, UTILITIES—** **Idaho Falls, Idaho**

Award to James Stewart Co., 411 N. Central Ave., Phoenix, Ariz., $1,385,000, by Atomic Energy Commission, Box 1221, Idaho Falls, for constructing laboratory and service building, utilities and facilities for EBR/2 facility at National Reactor Testing Station, Idaho; Inv. No. AT(10-1)-938. LB 6-17. Previous report 6-3

■ **HEALTH BUILDING—** **Lewiston, Idaho**

Planholders announced on constructing one-story, stone and brick, 150'x130' North Central District Health Department building at 1221 F St., Lewiston. Bids to be opened 2 p.m., June 24 by Nez Perce County Commissioners, Courthouse, Lewiston. Architect: Hugh Richardson, 407 Weisgerber Bldg., Lewiston.

Planholders — GENERAL: Commercial Builders Inc., Box 14, Moscow; Dunham Engineering and Contracting Co., 6262 Homestead, Moscow; Walter M. Varnum, Box 983, Coeur d'Alene; Don St. Marie, 131 W. 19th, Lewiston; Gus Larkin, 1119 8th, Lewiston; Kenaston & Huntley, Box 144, Lewiston; T. R. Pope, Route 1, Box 4-A, Clarkston, Wash. MECHANICAL: Miller Bros. Plumbing and Heating, 1116 17th, Lewiston; Lewiston Plumbing, Heating and Sheet Metal Co., 0208 5th, Lewiston. ELECTRICAL: John's Electric, 215 Lewiston; Webster Electric, 1203 3rd, Lewiston; Stout Electric, 848 Main, Lewiston. DM 6-18. Previous report 6-6

BUILDING CONVERSION— **Malad City, Idaho**

Plans will be available soon from Civil Aeronautics Administration, Procurement Branch, Box 45007, Airport Station, Los Angeles, for conversion of existing mountain top VOR facility to a VORTAC, Malad City; Proposal No. 4-58-1044. Involves conversion of prefabricated steel building with concrete floor and foundation; installing engine generator with fuel tank; relocating DME mast; constructing small outhouse; installing conduit and hole; miscellaneous electrical work. Salvaged materials to be crated and shipped. SP 6-3

● **SCHOOL ADDITIONS—** **Meridian, Idaho**

Bids to be received until 8 p.m., and opened at 8:30 p.m., M.S.T. June 30 by Joint Class A School District No. 2, Ada and Canyon counties, Administration Office, Meridian, for constructing elementary schools and remodeling within the district. Plans with Harold G. Thompson, architect, 6001 Fairview Ave., Boise. $25 deposit. Certified check, cashier's check or bid bond 5%.

Proj. M—18-classroom and multipurpose room Meridian Elementary School at Meridian; Proj. U—10-classroom and multipurpose room Ustick Elementary School, west of Ustick; Proj. E—6-classroom and multipurpose room Eagle Elementary School, at Eagle; Proj. SS—6-classroom and multipurpose room Southside Elementary School south of Meridian; Proj. S—multipurpose room addition and remodeling Star Elementary School at Star. Description applies to all projects: one-story, concrete footings and foundation; block walls; concrete slab floors; glued laminated beams; masonry and frame exterior partitions, exposed masonry and plaster on gypsum lath for interior partitions; concrete stairs; aluminum windows; brick veneer, block exterior trim and plaster and block for interior; maple and asphalt tile flooring; plaster and acoustical tile ceilings; wood cabinets; folding doors; corrugated plastic panels; blackboards; fire doors; steam heating, gas and coal fired; ventilating system. DM 6-13. Previous report 5-17

SCIENCE BUILDING— **Moscow, Idaho**
(Estimated cost $1,000,000)

Board of Regents, University of Idaho, Moscow, have applied to HHFA for grant of $11,205 to be used toward financing a proposed three-story science hall that would be built on the campus between the library and agricultural science buildings. Funds will be requested of the 1959 legislature for the new structure. MH 6-17

REMODEL ADMINISTRATION BUILDING— **Moscow, Idaho**

Working drawings will be completed by Wayland & Cline, architects, 624 Idaho Bldg., Boise, before the next state legislature meets, on remodeling the second and third floors of the south wing of the Administration Bldg., University of Idaho campus, Moscow. Mechanical engineer is Llye E. Marquee & Associates, Realty Bldg., Spokane. DM 6-17. Previous report 4-12

INFIRMARY ADDITION— **Moscow, Idaho**
(Estimated cost $385,000)

A proposed bond issue has been approved by Board of Regents, University of Idaho, finance construction of an addition to the student hospital on the campus at Moscow. Preliminary plans call for an addition of 11,000 sq. ft. MH 6-17

BANK ADDITION— **Moscow, Idaho**
(Estimated cost $100,000)

Construction will start late in July by Idaho First Security Bank on constructing a two-story addition to and improving interior of existing branch bank at 221 S. Main, Moscow. DC 6-11

SCHOOL— **Moscow, Idaho**
(Estimated cost $480,000)

Bids will be called early in July and opened about early in August by Moscow School District No. 281, 205 N. Monroe, Moscow, for constructing two-story masonry junior high school on D St. in northwest Moscow, according to Merle Stubbs, chairman of the school board. Plans by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane. DM 6-11. Previous report 5-21

▲**PAINTING BUILDINGS—** **Pocatello, Idaho**

Seven bids including one partial bid received by Class A School District No. 25, Bannock County, 246 N. Garfield, Pocatello, for painting interior and exterior of various school buildings in the district. Bids opened June 9. LOW BID: John Retty Painting Contractor, 705 S. 4th Ave., Pocatello, $5,975. HI: Miles England, 205 Park Ave., Pocatello, $10,002. PARTIAL BID: Vyron Ward Painting Contractor, 570 Cottage Ave., Pocatello, $3,158. SP 6-17. Previous report 6-4

HIGH SCHOOL— **Soda Springs, Idaho**

Site will be selected soon by Joint Class A School District No. 150, Caribou and Bonneville counties, Soda Springs, for a new senior high school building at Soda Springs. Preliminary plans underway by C. A. Sundberg & Associates, architects, 111 E. 16th St., Idaho Falls. GH 6-17

FILTER SAND PLANT— Spalding, Idaho
(Estimated cost $300,000)

Construction should start about July 1 by Inland Builders, 10th and Havana, Spokane, on a filter sand production plant to be located on a 5-acre tract on a spur of the Camas Prairie Railroad along the Clearwater River, just outside of Spalding, for Sunbeam White Sands, Inc., Hugh P. Terteling, president and manager, Moscow. MH 6-12

★**CITY HALL REMODELING—** **St. Maries, Idaho**

Award to Sceva Construction Co., No. 2928 Madelia, Spokane, $29,994, by City Council, City Hall, St. Maries, for alterations and constructing a five-unit reinforced concrete and heavy timber garage addition to the city hall. Plans with Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane. LB 6-14. Previous report 6-5

MONTANA

COMMUNITY CENTER— **Billings, Mont.**
(Estimated cost $2,000,000)

A proposed college-city community center at Eastern Montana College of Education in Billings is under consideration by the state board of education. An alternate would be a physical education building for the college, estimated at $1,600,000. EC

SANCTUARY, HALL— **Billings, Mont.**
(Estimated cost $70,000)

A fund campaign is planned by Central Methodist Church, 1935 Ave. B., Billings, to finance construction of sanctuary and fellowship hall to adjoin the existing educational unit. Architects: Drake & Custer, Empire Bldg., Billings. EE 4-

● **WOMEN'S RESIDENCE HALL—** **Bozeman, Mont.**
(Estimated cost $1,250,000)

Bids will be opened 10 a.m., July 14, by the Board of Trustees, Harriet E. Miller, secretary, Montana State College, Bozeman, for construction of a three-story, split level, basement, H-shaped Women's Residence Hall at the college. Plans and specifications available from Cushing, Terrell & Associates, 2... Airport Road, Billings. $50 deposit. Separate bids for general, mechanical, electrical and kitchen equipment.

Building will house 308 girls; single and double rooms; dining and kitchen facilities; steel frame, masonry construction; brick exterior, concrete block interior partitions; built-up asphalt and gravel roof; concrete floor slabs; aluminum windows, exterior doors; three service elevators; eight stairways; connected to campus central heating plant, hot water heat. EE 6-

▲**DORMITORIES—** **Cut Bank, Havre, Opheim AFS, Mont.**

Bids received by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for constructing three 34'x110' masonry 2-man dormitories, one at Cut Bank Air Force Station, (Sched. A), one at Havre Air Force Station (Sched. B), and one at Opheim Air Force Station (Sched. C); ENG-45-108-58-...

Ten bids were opened June 16. Low two official bids were—Sched. A, Cut Bank AFS, Mont.: J. E. Beaulaurier & Sons, 714 2... N., Great Falls, $74,401. Government estimate, $71,642. Sched. B, Havre AFS: Beaulaurier, $69,082. Government estimate $... 978. Sched. C, Opheim AFS: Gens Construction Co., Box 546, Great Falls, $73,... Government estimate, $71,534. DM 6-17. Previous report 6-...

CONVENT, CHURCH REMODELING— **East Helena, Mont.**

Plans will be completed soon by Vincent H. Walsh, architect, 415 N. Warren, Helena, for a one-story, 80'x40' convent for St. Ann's School and for repairs and remodeling the parish church of St. Cyril and Methodius, 102 W. Riggs, East Helena.

Concrete footings and foundation; brick veneer; frame floors, timber beams; plaster on wood lath for interior partitions; plaster ceilings; insulation in roof and walls; hot water heating, gas fired. LS 6-17. Previous report 11-12-...

● **ELEMENTARY SCHOOL—** **Edgar, Mont.**
(Estimated cost $62,000)

Bids will be opened 8 p.m., June 30, by Edgar School District, Carbon County, Edgar, for constructing a 5,040 sq. ft., wood frame, four-classroom elementary school west of the present school at Edgar. Plans with Edwin G. Osness, architect, 945 N. 29th, Billings. Plans call for tile flooring, composition roofing and forced air heating system. SP 6-14. Previous report 5-...

▲**HOSPITAL—** **Fort Benton, Mont.**

Eleven general, eleven mechanical, six electrical and two kitchen equipment bids received by Sisters of Charity of Providence of Montana, Sister Marciana, hospital administrator, in basement recreation room of Immaculate Conception Church, Fort Benton, for constructing one-story, 17,... sq. ft., solid masonry St. Clare Hospital at Fort Benton. Architects: Bordeleau-Amundson & Hauck, Box 1163, Great Falls. Bids opened June 10. Following are basic figures. GENERAL—TWO LOW: Gyrion Construction Co., 94 5th Ave. N.W., Kalispell, $281,... 000; Burt Talcott, Builder, 2600 9th Ave. N., Great Falls, $294,623. HI: Leigland & Co.,

Box 1862, Great Falls, $309,378. MECHANICAL—TWO LOW: Pinski Bros., 1020 Central Ave., Great Falls, $82,248; Teton Plumbing and Heating, Choteau, $82,295. HI: McCauley Plumbing and Heating, Havre, $103,051. ELECTRICAL—TWO LOW: Goggans & Pennie, 1106 Central Ave., Great Falls, $24,655; Schultz Electric, Conrad, $26,490. HI: John M. Schroeder, Inc., Box 366, Grand Forks, N. Dak., $37,240. KITCHEN EQUIPMENT—BIDS: Houseman & Co., Inc., 809 1st Ave. N., Great Falls, $12,321; Northwest Fixture Co., Billings, $12,406.
SP 6-13. Previous report 6-6

GRADE SCHOOL, GYMNASIUM— Forysth, Mont.

(Estimated cost $200,000)

Bids will be called soon by Father Joseph Galour, pastor, Immaculate Conception Parish, Forsyth, for construction of a new elementary school and gymnasium for the parish. Architects: J. G. Link & Co., Electric Bldg., Billings.
EE 6-3. Previous report 4-18

MOTEL— Glasgow, Mont.

Bids will be called soon for opening in July by Paul Campbell, operator of the Glasgow Hotel, for a 27-unit motor court to be built at 3rd Ave. S. and 6th St. in Glasgow. Architect: Shanley, Shanley & Anderson, Barber-Lydiard Bldg., Great Falls.
DC 6-12

● COLLEGE FACILITIES— Great Falls, Mont.

(Estimated cost $3,000,000)

Bids will be called October 15 by College of Great Falls, Board of Trustees chairman, 1618 3rd Ave. N., Great Falls, for construction of a new campus development program involving 11 buildings of an eventual 19 building project, which will be located on a 104-acre site between 10th and 20th Ave. S. and 20th and 23rd streets, Great Falls. Original plans called for two separate bid openings, but officials feel that one bid opening will decrease construction costs. Architect is Page & Werner, Box 1392, Great Falls; structural engineer, Ben F. Hurlbut, 208½ N. 29th, Billings; mechanical and electrical engineer, Alex G. Drapes, 104 4th N., Great Falls.

The 11 units will have 99,500 sq. ft. of floor space; solid masonry walls, metal curtain walls; concrete lift slab floors; steel supporting structures; flat steel glued laminated roof; masonry, frame partitions, steel studs; concrete stairways; aluminum curtain wall; brick exterior, brick, wood and plaster interior wall finish; exposed masonry, plaster with gypsum lath partitions; wood, asphalt tile, ceramic tile, terrazzo, vinyl asbestos flooring; plaster acoustical ceilings, painted concrete; steel and aluminum doors; folding doors, glass panels, blackboards, fire doors; rigid insulation in roofs; high temperature hot water (400 degree) heating system, gas fired.
DC 6-18. Previous report 5-23

CHURCH— Havre, Mont.

Working drawings are underway on the new Havre Van Orsdel Methodist Church to be built on the corner of 4th St. and 5th Ave., Havre. Construction may start in July on the first phase. Second phase will follow later. 1ST PHASE—Sanctuary, fellowship hall, kitchen, youth room, choir rooms, nursery, offices, study. 2ND PHASE—Church parlors, primary and junior departments.
DC 6-7

BOWLING ALLEY— Helena, Mont.

Plans have been completed by Vincent H. Walsh, 415 N. Warren, Helena, for a 100'x140', steel building to be built on concrete foundation at a site at 120 14th, Helena, for Capitol City Bowling, Inc. Construction will start immediately by Al Johnson, contractor, 310 S. Park, Helena. LS 6-17

● VOCATIONAL SCHOOL ADDITION— Helena, Mont.

Bids to be opened 10 a.m., July 10, by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for constructing a one-story and no basement, 36'x56', concrete block reception and security unit addition to the Montana State Vocational School for Girls in Helena Valley. Plans with Sigvald L. Berg, architect, 711 Monroe Ave., Helena, and with the state engineer, Capitol Bldg., Helena.

Concrete footings and foundation; concrete floors; concrete supporting structures; built-up tar and gravel roofing; masonry partitions; aluminum sash, steel security type windows; brick veneer exterior; plaster partitions; vinyl asphalt tile flooring; plaster ceilings; insulation in roof; incandescent and fluorescent lighting; hot water heating system, gas-fired, individual heaters.
LS 6-13. Previous report 12-28

FEDERAL BUILDING IMPROVEMENTS— Helena, Mont.

(Estimated cost $180,000)

Sigvald L. Berg, architect, 711 Monroe Ave., Helena, has been retained by General Services Administration, to prepare plans for improvements to the Federal Office Bldg. in Helena. Included are new lighting and plumbing and new entrance.
EE 6-7

★ CONTROL HOUSE ADDITIONS, RESIDENCE— Hot Springs, Mont.

Award to Rocky Mountain Construction Co., Kalispell, $25,250, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for constructing control house additions and addition of operator's residence at Hot Springs Substation, about three mi. southeast of Hot Springs, Sanders County, Mont.; Inv. No. 8750.
WB 6-13. Previous report 6-3

★ SCHOOL ADDITIONS— Kalispell, Mont.

Awards announced by School District No. 5, Central School Bldg., Kalispell, for construction of a one-story eight-classroom addition to Cornelius Hedges Elementary school, a one-story and no basement, 76'x 90' addition to Lillian Peterson Elementary school and a six-classroom second-story addition to Linderman school. Architects: Taylor, Thon, Schwartz & Kirkpatrick, 556 3rd Ave. E.N., Kalispell, and Brinkman & Lenon, Strand Theater Bldg., Kalispell. AWARDS—GENERAL: L. C. Larue, 595 5th Ave. W.N., $53,106 ($47,405 basic plus 3 alts.), Lillian Peterson school; L. C. Larue, $78,964 ($67,593 basic plus 3 alts.), Hedges Addition; Gyrion Construction Co., 94 5th Ave. W., $81,000 ()basic), Linderman school. MECHANICAL: Lyford Plumbing and Heating, 233 2nd St. W., $48,839 (combined bid for three schools). ELECTRICAL: Hollingsworth Electric, 419 1st Ave. E., $18,756 (combined). All of Kalispell. RB 6-14. Previous report 5-15

▲ SHOP BUILDING, SITE DEVELOPMENT—Malmstrom AFB, Mont.

Bids received June 17 by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for constructing 1½-story, 12,400 sq. ft. tilt-up and prestressed, precast concrete armament and electronics shop building and site development at Malmstrom AFB; ENG-45-164-58-66.

Two late telegraphic bid changes at the June 17 bid opening may change order of bidders. Without these changes the apparent low is J. E. Beaulaulier & Sons, 814 25th N., Great Falls, $233,566 (telegraphic reduction of $4,000 has not been considered as yet); Sletten Construction Co., 1301 10th N., Great Falls, $234,994. Government estimate $249,345. DM 6-18. Previous report 6-7

SHOPPING CENTER— Missoula, Mont.

(Estimated cost $1,500,000)

Plans for a shopping center in southeast Missoula have been announced by J. F. Mosby, president of Fairview Shoperama.
DC 6-4

★ POWER BUILDING ADDITION— Opheim AFS, Mont.

Award to Refer Construction Co., Box 561, Miles City, $74,360, by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for constructing concrete block addition to the power building and installing three 250-kw Government-furnished diesel generators and other equipment in the addition at Opheim Air Force Station; ENG-45-108-58-134.
SP 6-13. Previous report 6-5

POST OFFICE— Polson, Mont.

Bids will be called soon by S. G. Schwartz, regional director, Post Office Department, Box 3703, Portland, for construction of a 1,900 sq. ft. post office building at the southwest corner of 1st St. E. and 3rd Ave. in Polson.
RB 5-29

● BORDER STATION REPAIRS— Raymond, Mont.

Bids to be opened 3 p.m., June 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for improvements and repairs, U.S. Border Station, Raymond; Proj. SEA-824. Plans with above office.
SP 6-14

● BORDER STATION IMPROVEMENTS— Scobey, Mont.

Bids will be opened 3 p.m., June 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for improvements and repairs to to U.S. Border Station, Scobey; Proj. No. SEA-826. Plans with above office.
SP 6-17

ALASKA

■ HOSPITAL ADDITION— Adak, Alaska

Planholders announced for constructing 28'x50' extension to existing station hospital, altering 28'x105' wing, furnishing, equipment, U. S. Naval Station, Adak; Spec. No. 2431/57. Bids will be opened 3 p.m., June 24, by Naval District, in office of the Resident Officer in Charge of Construction, District Public Works Office, Bldg. 250-256, 13th Naval District, Seattle.

Planholders: Adak POL Contractors, Box 1039, Anchorage; L. G. Massart Plumbing and Heating Co., 4501 9th N.W., Seattle; Raber-Kief, Inc. and Beck Construction Co., 5939 4th Ave. S., Seattle; Holert Electric, 2300 W. Spokane St., Seattle; Urban Plumbing and Heating Co., 2904 S.W. 1st Ave., Portland; City Electric of Anchorage, Inc., Box 3698, Eastchester Branch, Anchorage.
SP 6-13. Previous report 6-5

CHURCH ADDITION— Anchorage, Alaska

(Estimated cost $50,000 to $75,000)

Revised plans will be completed by July 1 by Maynard L. Taylor, Jr., architect, 744 4th Ave., Anchorage, on a one-story and basement, 4,320 sq. ft. concrete block addition to First Church of Nazarene at 13th and E St., Anchorage. Church members will handle the construction, except for excavation and block work which will be contracted.
AL 6-17. Previous report 2-19

★ COURTHOUSE ADDITION— Anchorage, Alaska

Award to J. B. Warrack, 400 2nd Ave. W., Seattle, $375,800, by General Services Administration, 126 Federal Bldg., Seattle, for constructing three-story and no basement, 8,775 sq. ft. annex addition to provide additional court facilities at U. S. Post Office and Courthouse, 3rd and 4th Aves. and F and G Sts., Anchorage; Proj. SEA-815. Architect: Edwin B. Crittenden, Box 358, Anchorage.
SP 6-14. Previous report 6-12

★ CHURCH COMPLETION— Anchorage, Alaska

Award to Ken Brady Construction Co., 1402 Nelchina, Anchorage, $172,000, by First Methodist Church, in office of Manley & Mayer, architects, 210 Loussac-Sogn Bldg., Anchorage, for completion of church in Anchorage.
AL 6-18. Previous report 5-14

▲ TRUCK FILL, SALES STAND— Elmendorf, AFB, Alaska

Award of contract will be delayed until amount of funds available is determined for constructing fuel oil truck fill and case sales stand, including removal of an existing building, at Elmendorf AFB; Inv. No. 58-197. Three bids received June 13 by U. S. Air Force, Elmendorf AFB. BIDS: Alta Construction Co., Box 1541, Anchorage, $44,500; Sandland Construction Co., 806 Chugach Drive, Spenard and Dunderi Construction Co., 2703 27th Ave., Spenard, joint venture, $58,429; Western Construction Co., Box 2274,

Anshorage, $41,400. Government estimate, $36,000. AL 6-17. Previous report 5-29

▲SCHOOL— Elmendorf AFB, Alaska

Five bids were received June 12 by Housing and Home Finance Agency, 1107 I St., Anchorage, for constructing one-story, frame, 7,000 sq. ft. Sunflower School No. 2 at Elmendorf AFB near Anchorage. Architect: Manley & Mayer, 210 Loussac-Sogn Bldg., Anchorage. LOW BIDS: Inlet Construction Co., Box 3095 Eastchester Branch, Anchorage, $206,000; Ken Brady Construction Co., 1402 Nelchina, Anchorage, $214,000. HI: C & R Builders, Inc., 1619 8th N., Seattle, Wash., $232,400.
AL 6-14. Previous report 6-5

▲STORAGE BASE ROCKET ASSEMBLY— Elmendorf AFB, Alaska

Two bids received by Corps of Engineers, Box 1288, Anchorage, for additions and alterations to base rocket storage unit B at Elmendorf AFB; ENG-95-507-58-15. Bids opened June 11. Bids: Alcan Pacific Co., Anchorage, $162,500; Western Construction Co., Inc., Post Road, Anchorage, $183,373. Government estimate, $154,090.
SP 6-14. Previous report 5-10

▲POWER, LIGHT MODIFICATION— Elmendorf AFB, Alaska

Four bids received June 16 by U.S. Air Force, Procurement Office, Bldg. T22-057, Elmendorf AFB, for modification of power and light in Hangar No. 3, Bldg. 11-470, and Hangar No. 7, Bldg. 11-140, Elmendorf AFB; Inv. No. 58-200. LOW BIDS: Allen Electric Co., Box 1533, Anchorage, $406,995; City Electric of Anchorage, Box 3698, Anchorage, $412,811. HI: Waterfront Ship Services, Inc., Pier 59, Seattle, $505,150.
AL 6-18. Previous report 5-29

★STORM, SCREEN SASH— Ladd AFB, Alaska

Award to Chamberlin Co. of America, 316 Westlake N., Seattle, $78,586, by U.S. Air Force, Procurement Office, Ladd AFB, for installation of combination storm and screen sash on 17 family quarters and 11 airmen dormitories at the base; No. 58-88. Bids opened May 13.
AL 6-18. Previous report 4-22

▲CHAPEL— Ladd AFB, Alaska

Three bids received June 10 by Corps of Engineers, Anchorage for constructing 8,340 sq. ft. chapel with 3,630 sq. ft. educational wing, and outside utilities at Ladd ENG-58-23. BIDS: Beck Constructors, Stone Way, Seattle, $689,016; Alcan P Co., Anchorage, $708,063; Reed & M Box 568, Fairbanks, $715,801. Govern estimate $660,834.
DC 6-13. Previous repo

● ELEMENTARY SCHOOL— Metlakatla, A

Bids to be opened 2 p.m., July 8, by I. Gagnon, Alaska purchasing agent, A Office Bldg., Juneau, for construction six-classroom elementary school with side utilities and site improvement Metlakatla; Inv. 157. Plans with purch office, Box 2420, Juneau. Architect: Linn Forest, 622 Hemlock Way, Juneau. SC

● ELEMENTARY SCHOOL Tanana, Ala

Bids will be opened 2 p.m., July 2, Paul L. Gagnon, Alaska purchasing ag Alaska Office Bldg., Juneau for constru tion of a two-classroom school and quarters together with outside utilities site improvements at Tanana; Inv. No. Plans with the purchasing office, Box 2 Juneau. Architects: Linn A. Forest, 622 lock Way, Juneau.
SC 6-14. Previous report

ENGINEERING NEWS

Washington, Oregon, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

▲DAM ACCESS ROAD— Ashland, Ore.

Eight firms bid on constructing access road from a point east of Howard Prairie Dam to an intersection with Hyatt Prairie Road about 25 mi. east of Ashland; Spec. No. 100C-333. Bids were opened June 12 by Bureau of Reclamation, Camp White. LOW BIDS: Glen Dusky Construction Co., Box 327, Moses Lake, $56,100; Ralph A. Bross, 1626 Kings Highway, Medford, $68,719. The high bid was $112,180. Government estimate, $97,684. DC 6-17. Previous report 5-17

● WATER MAINS SPRINKLER, FIRE HYDRANT— Beaver Army Terminal, Ore.

Bids will be opened 2:45 p.m., June 24 by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for freezing protection, pier water mains and fire hydrants, Beaver Army Terminal; ENG-45-108-58-190. Plans with above office. SP 6-13

▲GRADING, UTILITY CONSTRUCTION— Beaverton, Ore.

Thirteen bids received in office of Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, for site grading and utility construction on the south 64 acres of the Tektronix Retirement Fund industrial tract northwest of Beaverton on the north extension of Hockens St. Bids opened June 10. TWO LOW: R. I. Randolph, 3815 Welty Way, Salem, $73,645; John L. Jersey, Inc., 3647 S.E. 34th Ave., Portland, $76,787. HI BID: Butler Construction Co., McKay Bldg., Portland, $123,533.
WB 6-13. Previous report 6-4

★SURFACING— Big Cliff, Detroit Dams, Ore.

Award to Central Paving Co., Box 38, Independence, $15,140, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for road and parking area surfacing at Detroit and Big Cliff Dams and metal guard rail at Detroit Dam; CIVENG-35-026-58-178. WB 6-13. Previous report 5-22

▲NAVIGATION VALVE, SKIN PLATES— Bonneville Dam, Ore.

Nine bids received by Corps of Engineers, 628 Pittock Block, Portland, for fabricating and delivering to Bonneville Dam one navigation lock tainter valve and four skin plates; CIVENG-35-026-58-197. Bids opened June 11. TWO LOW: Schmitt Steel, Inc., 2765 N.W. Nicolai St., Portland, $11,796; Monarch Forge & Machine Works, Inc., 2130 N.W. York St., Portland, $12,900. HI BID: Treadwell Construction Co., Midland, Pa., $23,680. WB 6-13. Previous report 5-17

● SEWAGE TREATMENT UNITS— Bonneville Dam, Ore.

Bids to be opened 2 p.m., June 24, by Corps of Engineers, Portland office, 628 Pittock Block, Portland, Ore., for constructing sewage treatment units at Bonneville Dam; CIVENG-35-026-58-234. Specifications with above office. Bid bond 20%. SP 6-14

● ROAD IMPROVEMENT— Camp Bonneville, Ore.

Bids will be opened 1 p.m., June 25, by Department of the Army, Fort Lewis, for entrance road improvement to Camp Bonneville, Ore. Plans with above office. Bid bond 20%. Project involves 1,000 c.y. aggregate base course; 500 c.y. aggregate leveling course; 11 ton bituminous prime coat, MC-1; 23 ton bituminous cement, RC-3. LB 6-18

▲SANITARY SEWER SYSTEM— Coos Bay, Ore.

Two bids received by Bunker Hill Sanitary District, in the Bunker Hill School gymnasium, Coos Bay, for constructing sanitary sewer system. Consulting engineer: R. H. Erichsen, 409 4th Court, Coos Bay. Bids opened June 11. BIDS: Fred J. Stubbert, 1056 S. J St., Springfield, $14,566; Sig Anderson, 1371 Bayview Ave., North Bend, $16,194. SP 6-17. Previous report 5-23

★GRAVELING ROAD— Corvallis, Ore.

Award to L. R. Kauffman, Waldport, $27,160, by U. S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., Portland, for 9,700 c.y. of gravel, crushed gravel crushed stone surfacing on approximately 4.182 mi. of Hilltop Road No. 128, abo 27 mi. southwesterly from Corvallis, a 1 mi. westerly from Harlan, Siuslaw N tional Forest, Lincoln County; Bid No. 7
WB 6-13. Previous report

▲STREET IMPROVEMENT, SEWERS— Corvallis, O

Bids on 1—asphaltic concrete pavem curbs; drains and 2—4,400' of sewers, w opened June 16 by V. L. Goodnight, c engineer, City Hall, Corvallis. PAVIN ONLY BIDS: Warren Northwest Inc., B 5072, Portland, $64,683; Corvallis Sand Gravel, Gallagher Road, Corvallis, $64,7 SEWER—LOW: Gail L. Zysset, 1565 Ro velt Salem, $20,183.
DM 6-18. Previous report

■ CHANNELS— Eugene, O

Planholders announced for construct a concrete lined channel at Amazon Cr beginning at the Charnelton St. Bri and ending at 24th Ave. Bridge, and c structing open earth channel with concr transitions at 24th, 29th, 31st and 33rd A nue bridges, and drop structures at 3 and 29th Avenue bridges, work ending 33rd Ave. Bridge (about 8,600'). Eug CIVENG-35-026-58-215. Bids to be ope 2 p.m., June 24 by Corps of Engineers, P land district, 628 Pittock Block, Portla

Planholders: Wildish Construction Box 345; W. H. Shields Construction Box 3037; Eugene Sand & Gravel Co., 1067; L. C. Daniel, 745 E. 20th; C. H. Str Box 366; Hamilton & Thoms, Box 726, J M. Steinmuller, Jr., 907 W. 3rd Ave.; Wa S. Hardie & Son, 305 Taylor St., Box M. J. Butts, 1162 Tyler St.; John Bost 990 Williams Rd. of Eugene. C. J. Mos & Sons, 7805 N.E. Halsey St.; Teeples Thatcher, 8850 S.E. Otty Road; Ham Bros., 8410 S.E. Otty Rd.; J. Bacaloff 6009 N.E. 60th Ave.; G. D. Dennis & So 7355 S.E. Johnson Creek Blvd.; J. N. C ley, 4332 N.E. Royal Court; C. M. Cork Co., 2630 S.W. 2nd Ave.; Natt McDoug Co., 824 Pittock Block; Pettijohn Engine ing, 4145 N.E. Cully Blvd.; Lord Bros. C tractors, 9233 N. Calvert St.; Valley C struction Co., 6100 N.E. Columbia Blvd. Portland.

Misco, Inc., 1123 W. Hanford St.; Americ Construction, Inc., 3238 37th S.W.; J. Troxell, 4006 E. 38th. Of Seattle. Floyd G ham Construction Co., Box 215, Lebano H. G. Carl Construction Co., Box 387, Sale Timber Access Industries, Box 507, C vallis; Peter Kiewit Sons Co., 405 E. Ma Medford; John W. Strong Corp., 8221 A lantic Ove., Bell, Calif.; Louis Elterich, B 868, Port Angeles, Wash.; W. R. Taylor, 2 S. Santiam Rd., Lebanon; Lee Hoffm Inc., Box 37, Beaverton.
WB 6-14. Previous report

★**SEWERAGE PROJECT— Fairview, Ore.**

Award to Tracy Colt, 3233 S.E. Steele St., Portland, $113,887, by city recorder, Betty J. Shaw, Fairview, Ore., for construction of trunk sewers and lift station, and lateral sewers in Fairview. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. Although bids were opened in April, construction did not start until June 1. WB 6-14. Previous report 4-11

▲**BANK PROTECTION— Harrisburg, Ore.**

Nine bids received by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for construction of bank protection works at Gavette Location along the left bank of the Willamette River, about ½ mi. southwest of Harrisburg; CIVENG-35-026-58-188. Bids opened June 11. TWO LOW: C. W. Hatfield, 141 Barclay Ave., Oregon City, and A. C. McCollister, 420 N.E. 19th Ave., Portland, (joint venture), $46,289; J. F. Oldham, Eugene, $54,573. HI BID: L. P. Stubblefield, Box 341, Eugene, $76,716. WB 6-13. Previous report 5-13

RUNWAY PAVING— Hermiston, Ore.

A preliminary survey of proposed improvements to the Hermiston airport has been made by a crew from the Oregon State Board of Aeronautics, according to Earl Snyder, director. Work is scheduled to start sometime in July on lengthening to 2,800' the runway and paving to a 50' width with 0-11 Oregon State Highway specifications. Talus shoulders on the runway will be 25' wide. An electrically operated beacon will be installed. DC 6-7. Previous report 2-18

●**SEWERS— Hillsboro, Ore.**

Bids will be opened 8 p.m., July 1, by City Recorder, City Hall, Hillsboro, for construction of 33,000' of interceptor and trunk sewers. Plans with Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., (Box 508), Portland. $50 deposit. Cash, certified check or bid bond 5%. An estimated 31,000 c.y. of excavation will be required. WB 6-13. Previous report 2-13

★**BANK PROTECTION— Junction City, Ore.**

Award to C. W. Hatfield, 141 Barclay Ave., Oregon City, and A. C. McCollister, 420 N.E. 19th Ave., Portland, (joint venture), $56,868, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of bank protection works at the upstream of Harper Bend Location, along the left bank of the Willamette River, about 2 mi. northeast of Junction City; CIVENG-35-026-58-185. WB 6-13. Previous report 6-5

●**HEATING PLANT CATWALKS— Kingsley Field, Ore.**

Bids to be opened 10 a.m., June 23, by George R. Meyers, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, for constructing catwalks at existing heating plant at Kingsley Field; Bid No. 58-29. Plans with above office. Architect: Howard R. Perrin, 1121 Main St., Klamath Falls.

Quantities: 12,000 lb. miscellaneous steel shapes; 40 stair treads; 660 sq. ft. grating; 350' chain link fencing. ZZ 6-14

▲**CRANES— Lookout Point Reservoir, Ore.**

Correction: Nelson J. Leonard, 5764 28th Ave. N.E., Seattle, was low bidder at $10,935, for one three-ton hand operated bridge crane and two three-ton wall mounted jib cranes, for Lookout Point Reservoir and Detroit Dam Warehouse; CIVENG-35-026-58-201. Bids opened June 12 by Corps of Engineers, Portland District, 628 Pittock Block, Portland. Seven bids received. 2ND LOW: Daizell Rigging Co., 1150 6th St., Berkeley, Calif., $10,999. WB 6-18. Previous report 6-14

★**APPROACH LIGHTING, ROADS, SHEDS— Medford, Ore.**

Award to Mussack Construction Co., 2631 S. Main, Santa Ana, Calif., $28,635, by Civil Aeronautics Administration, Procurement Branch, 5651 W. Manchester Ave., (Box 45007), Airport Station), Los Angeles, Calif., for installing configuration approach lighting system, access roads, walks, storage shed at Medford; Proposal No. 4-58-985. LB 6-18. Previous report 6-3

★**GRADING, PAVING— Medford, Ore.**

Award to Norquist Bros., Sweet home, $24,650, by Tom Williams, superintendent, Crater Lake National Park, Post Office Bldg., Medford, for grading and paving utility area at park headquarters and reconstructing and paving road intersection at Annie Spring. LB 6-18. Previous report 5-27

●**SIDEWALK, DRIVEWAY— Milwaukie, Ore.**

Bids to be opened 4 p.m., June 23, by City Council, City Hall, Milwaukie, for 3,257' curbing, 14,286 sq. ft. sidewalk and 1,760 sq. ft. driveway at Milwaukie. Plans with city treasurer, City Hall. SC 6-14

★**ELECTRIC POWER MODIFICATION— North Bend AFS, Ore.**

Award to Trowbridge Electric Co., 622 S.E. Jackson, Roseburg, $49,250, by Corps of Engineers, Seattle office, 1519 S. Alaskan Way, Seattle, for modification to electric power supply facilities at North Bend Air Force Station; ENG-45-108-58-144. SP 6-13. Prveious report 6-6

★**STONE REVETMENT— Packwood, Wash.**

Award to Brewer & Rea Construction Co., Orting, $21,593, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for placing quarry stone revetment along the left bank of the Cowlitz River, Packwood Location, about 2 mi. southwest of Packwood, Lewis County, Wash.; CIVENG-35-026-58-164. WB 6-13. Previous report 5-29

▲**WATER PIPE— Portland, Ore.**

Two bids received by City of Portland, purchasing agent, 208 City Hall, Portland, for 12,000' of 16" cast iron mechanical joint water pipe. Bids opened June 13. BIDS: Pacific States Cast Iron Pipe Co., Portland Trust Bldg., Portland, $92,808; U.S. Pipe Foundry, Colman Bldg., Seattle, $93,960. WB 6-17. Previous report 6-6

▲**GRADING, BRIDGE— Portland, Ore.**

Bids received June 16 by Bureau of Public Roads, 760 Morgan Bldg., Portland (Box 3900) on two projects: 1—FDRP Siskiyou 333-A, grading 4.567 mi. Agness Road, Siskiyou National Forest, Coos County, and 2—FDRP Willamette 2061-A, reinforced concrete 115' bridge over Black Creek Road, Lane County, BLACK CREEK—Four bids—LOW: Merlin R. Stam, 1974 Pierce, Eugene, $30,246; M. R. Holte, Oak Ridge, $31,921. HI: R. and M. Construction Co., 136 Main, Central Point, $33,808. Engineer's estimate $33,550. SISKIYOU—Ten bids—LOW: Coos Bay Dredging Co., Box 217, $272,432; A. L. Harding, 541 Willamette, Eugene, $371,681. HI: Hamer Corp., 1600 N. Stephens, Roseburg, $625,709. Engineer's estimate $516,470. WB 6-17. Previous report 6-12

★**STATE HIGHWAY PROJECT— Portland, Ore.**

Award to R. A. Heintz Construction Co., 211 N.E. Columbia, Portland, $1,037,844, by Oregon State Highway Commission in Imperial Hotel, Portland, for grading 6.66 mi., Pacific Highway about 13 mi. south of Albany, Linn County; Saddle Butte - Twin Buttes Section; FAIP No. I-5-4(16)215. Bids opened May 9. LB 6-17. Previous report 5-11

●**EXCAVATING— Portland, Ore.**

Bids will be opened 10 a.m., June 30, by Bureau of Public Roads, 760 Morgan Bldg., Portland (Box 3900) for constructing a portion of the Gumboot Road, Wallowa-Whitman National Forest, Wallowa County, Wallowa-Whitman S439-A. Plans with above office.

Quantities: 25,000 c.y. unclassified excavation; furnishing, installing culvert pipe. LB 6-14

●**BRIDGE TIMBERS; GLU-LAM STRINGERS— Portland, Ore.**

Bids will be opened 11 a.m., P.S.T., June 24, by U. S. Forest Service, G. L. Mercer, purchasing agent, 729 N.E. Oregon St., room 209, Portland, for prefabricated, treated bridge timbers and glu-lam stringers, fob. five bridge sites in Oregon and Washington Inv. No. 412. Bridges are: Emerson Bridge, 25 mi. east of Tiller, Ore.; 66' Stafford Creek Bridge, Wenatchee National Forest, Wash.; 60' Fortune Creek Bridge, 35 mi. northwest of Cle Elum, Wash.; 54' Lower Big Creek Bridge, Lewis County, Wash.; 54' Nisqually Bridge, Lewis County, Wash. WB 6-14

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●STREET IMPROVEMENT—
Portland, Ore.

Bids will be opened 10:30 a.m., June 26, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for grading, placing rock base, construction of drainage facilities and surfacing with asphaltic concrete on N.E. 92nd Ave. from Prescott to Skidmore streets; Proj. D-295. Plans with roadmaster's office, 2115 S.E. Morrison St., Portland. $2 charge. Certified check or bid bond 10%.
WB 6-14

★SUSPENSION INSULATORS—
Portland, Ore.

Award to Electric Transmission Equipment Co., Board of Trade Bldg., Portland, $269,112, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for suspension insulators; Inv. 8756. WB 6-14

●BRIDGES— **Portland, Ore.**

Bids will be opened 10 a.m., June 27, for constructing two 110' and 130' bridges, and approach grading, Whitehorse Creek Road and Snow Creek Road, Medford District, Douglas County, BLM 89-A and 90-A. Plans with above office.

Quantities: 13,050 c.y. excavation; 317 c.y. class A concrete; 61,800 lbs. reinforcement steel. LB 6-14

●REINFORCED CONCRETE BRIDGES—
Portland, Ore.

Bids will be opened 10 a.m., June 27, by Bureau of Public Roads, 760 Morgan Bldg., Portland (Box 3900) for constructing three, each 55', 150' and 186' reinforced concrete bridges, Smith River Road and related roads, Coos Bay District, Douglas County, BLM 68-E, 21-8-1A and 21-8-11A. Plans with above office.

Quantities: 10,700 c.y. excavation; 552 c.y. concrete; 113,100 lbs. reinforcement steel; 382' steel bridge railing. LB 6-14

▲SEWER CONSTRUCTION—
Portland, Ore.

Six bids received by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for construction of sewers in Ara Vista Sewage District No. 1. Bids opened June 10. LOW BIDS: John Luyben & Son, 14005 N.E. Halsey St., $44,110; George W. Lind, 5000 N.E. Killingsworth St., $49,429. HI BID: Frank Kanehl, 5203 S.E. 108th Ave., $57,655. Of Portland. WB 6-13. Previous report 5-31

★GRADING, FOUR BRIDGES—
Portland, Ore.

Award to Lewis River Logging Co., 3716 Daniel St., Vancouver, Wash., $409,253, by Bureau of Public Roads, Morgan Bldg., Portland, for 16.287 mi. grading and four reinforced concrete bridges 110', 120', 65' and 80' in length, Ore. TARP, BLM 85-A, West Fork Evans Creek Road, Bureau of Land Management-Medford District, Jackson County, Ore.
WB 6-13. Previous report 6-10

▲STATE HIGHWAY PROJECTS—
Portland, Ore.

Bids were opened June 17 by Oregon State Highway Commission in Portland on 26 highway construction projects.

Awards will not be made until the June 19 meeting of the State Highway Commission.

BRIDGE, Luckiamute River—Construct 133', three-span, reinforced concrete deck girder bridge, steel pile end bents and concrete column interior bents about one mi. east of Hoskins, Benton County; FAP No. DS-380(1).

LOW BIDS: Tom Lillebo, Reedsport, $27,120; Central Paving Co., Independence, $31,697; Hamilton & Thoms, Box 726, Eugene, $32,405.

GRADING, PAVING, Wauna-Westport Section of Columbia River Highway—Grading, paving 2.54 mi. about 23 mi. east of Astoria, Clatsop County; FAP DF-221(5).

LOW BIDS: Fred H. Slate Co., Ore. Ltd., and E. C. Hall, 12012 S.W. Barbur Blvd., Portland, $468,830; Rogers Co. Inc., 11760 N.E. Glisan, Portland, $486,354; G. D. Dennis & Sons, Portland, $492,917.

CORRECTION

Award was made to Lord Electric Co., Inc., 1333 Gillespie St., Richland, Wash., for the electrical contract on the two-story, 13,915 sq. ft. reinforced concrete and frame addition to Pasco High School. Inadvertently, another firm was mentioned for the above contract. General contractor on the project is Jensen-Rasmussen & Co., Sunnyside.

GRADING, PAVING, Seaside Section of Oregon Coast Highway—1.98 mi. in Clatsop County; FAIP DF-115(10).

LO WBIDS: United Contracting Co., Box 5075, Portland, $154,785; Warren Northwest Inc., Portland, $156,633; Babler Bros. Inc., Portland, $169,869.

BRIDGE, Milton Creek on Columbia Blvd. (Yankton Road)—120' reinforced concrete deck girder bridge in St. Helens, Columbia County; FAP DS-381(1).

LOW BIDS: Erick Enquist, Troutdale, $26,671; Birkemeier Construction Co., 14511 S.E. River Road, Milwaukie, $26,676; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, $29,768.

COOPER BRIDGE, over N. Fork, Coquille River—433' reinforced concrete structure with concrete on piling approaches near Myrtle Point on Myrtle Point-Fairview Road, Coos County; FASP S-DS-374(1).

LOW BIDS: Sig Andersson, Coos Bay, $128,156; Tom Lillebo, Redsport, $132,526; Richard L. Martin, Oswego, $136,205.

PAVING, Coquille (E. 10th and N. Collier)—0.23 mi. in Coos County; a City Project.

ONLY BIDS: Woodworth & Son and Barklow, Coquille, $14,972; Bap Pavers Inc., Coos Bay, $16,482.

GRADING, OILING, West Unit, Post-Camp Creek Section, Paulina Secondary Highway—7.18 mi. just west of Post in Creek County; FAP DS-154(5).

LOW BIDS: Keystone Inc., Prineville, $296,021; C. C. Meisel, Box 206, McMinnville, $301,449; Newport Construction Co., 7031 N.E. Halsey, Portland, $319,310.

OILING, Vicinity of Terrebonne, Redmond, Bend, Alfalfa, Tumalo, Sisters—25.05 mi. on 12 Deschutes County roads; Federal Aid Projects.

LOW BIDS: Babler Bros. Inc., Portland, $109,500; Horton Construction Co., Portland, $119,024; J. C. Compton, McMinnville, $131,216.

BRIDGE, Myrtle Creek Interchange, on Myrtle Creek-Canyonville Section of Pacific Highway—204' reinforced concrete deck girder bridge to carry Pacific Highway over access road to Myrtle Creek, Douglas County; FAP No. I-5-2(14)109.

LOW BIDS: Tom Lillebo, Reedsport, $106,905; Sig Andersson, Coos Bay, $110,420; Hamilton & Thoms, Eugene, $120,415.

GRADING, PAVING, STRUCTURE, Emigrant Reservoir Section of Green Springs Highway—4.52 mi. southeast of Ashland, Jackson County; a State Project.

LOW BIDS: Babler Bros., Inc., Portland, $353,602; F. L. Somers, Box 668, Medford, $412,287; R. A. Heintz, Portland, $415,245.

PAVING, Bybee Bridge-Gregory Road Section of Table Rock Road—1.95 mi. in Jackson County about 6 mi. north of Medford; FAP DS-102(4).

ONLY BIDS: Rogue River Paving Co., 217 Eastwood Drive, Medford, $45,333; M. C. Lininger & Sons, Box 1386, Medford, $46,212.

SLIDE CORRECTION, Smith Hill Section of Pacific Highway—About 46,550 c.y. excavation about 2 mi. south of Wolf Creek, Josephine County; a State Project.

LOW BIDS: C. G. Trusty and E. L. Ferris, Roseburg, $25,357; Earl L. McNutt, Eugene, $29,365; Calkins Crushing Co., Ocean Lake, $31,527.

GRADING, PAVING, Springfield Section of McKenzie Highway in Springfield—0.78 mi., Lane County; FAP DU-117(22).

ONLY BIDS: T. C. Wildish, Box 345, Eugene, $42,901; Central Heating Co., Eugene, $52,622.

PAVING, STONE SHOULDERS, Albany Canal-Lebanon Jct. Section of Albany-Brownsville Road—3.63 mi., Linn County, about 2 mi. south of Albany; FAP S-378(1).

LOW BIDS: Morse Bros., Lebanon, $20; Western Paving and Construction, bany, $59,960; Warren Northwest, Inc., land, $65,180.

MAINTENANCE BUILDING, Silver 36'x83' masonry block building with inum roof, Marion County; a State Pr

LOW BIDS: John A. Pfeifer, Silve $14,998; Meier Construction Co., Silv $16,819; C. E. Johnson, Milwaukie, $

GRADING, PAVING, Browning Rosedale Section, Liberty Road—3.0 Marion County, about 1 mi. south of S FAP S-379(1), DS-379(2).

LOW BIDS: Central Paving Co., pendence, $161,555; Salem Blacktop Co., Salem, $167,099; Salem Sand and G Co., Salem, $169,640.

STRUCTURES, S.W. Terwilliger U Unit of R. H. Baldock Freeway in Port —Construct 567' reinforced concrete nection to Freeway and revise 18 ing structural steel and timber stru over Freeway, Multnomah County; I I-5-6(2)296.

LOW BIDS: Kuckenberg Construc Co., Portland, $308,899; Inland Constru Co., Milwaukie, $314,161; John L. Jas Portland, $314,729.

GRADING, PAVING, Harbor Drive-Ja ell St. Unit, Harbor-Drive-Washing County Line Section of Pacific Hig (R. H. Baldock Freeway) in Portland mi., Multnomah County; FAP I-5-6(11

LOW BIDS: Roy L. Houck & Sons, $890,440; Kuckenberg Construction Portland, $905,155; Gibbons & Reed Portalnd, $934,558.

GRADING, Multnomah Falls-Dodson tion of Columbia River Highway—3.7 Multnomah County about 24 mi. east Portland; FAP I-82-2(6)28. Requires 473 c.y. embankment in place.

LOW BIDS: Fred H. Slate Co. Ore. and E. C. Hall Co., Portland, $462,965; K enberg Construction Co., Portland, $46 Rogers Construction Co., Portland, $51

STONE BASE, OILING, North Pow Davis Ranch Section of North Pow River Road—4.23 mi., Union County, of North Powder; FAP S-22(4).

LOW BIDS: C. E. Leseberg, Nyssa, 257; Calkins Crushing Co., Ocean L $58,931; J. C. Compton, McMinnville, $

STRUCTURES, Grande Ronde Bridges near LaGrande on Old Oregon Highway—Two reinforced concrete tures, 432' and 450' long respectively, County; FAP I-82-6(10)255.

LOW BID: Tom Lillebo, Reedsport, 819; Peter Kiewit Sons' Co., Long Wash., $598,150; Lord Bros. Co., Portl $649,956.

OILING, Flora Spur Section of Road—2.67 mi., Wallowa County, eas from Flora; FAP DS-361(2).

LOW BIDS: J. F. Konan, Inc., Portl $13,606; Russell Olson, Pendleton, $17 Babler Bros., Inc., Portland, $21,336.

GRADING, PAVING, STRUCTURE, boro-Campbell Bridge Section of Hillsb Silverton Highway—4.01 mi., Washing County, 1 mi. south of Hillsboro; FAP (5).

LOW BIDS: Warren Northwest, Portland, $286,239; Morse Bros., Lebanon, $298,322; Porter W. Yett, Portland, $3

BRIDGE, Fanno Creek Bridge on Ol Road—Construct 45' bridge of three precast concrete deck panel spans on tim piles, 30' roadway, Washington County, mi. south of Oleson Road junction w Schools Ferry Road and Beaverton-H dale Highways; FAP DS-16(2).

LOW BIDS: Central Paving Co., In pendence, $14,187; Birkemeier Construc Co., Milwaukie, $14,571; Manson Constru tion and Engineering Co., Seattle, Wa $15,880.

STRUCTURES, GRADING, OILIN Muleshoe Creek-Burton Canyon Section John Day Highway—Four structures a 7.19 mi. grading, oiling about 4 mi. west Spray, Wheeler County; FAP DF-6(1).

LOW BIDS: Newport Construction C Portland, $521,615; Vernie Jarl, Gresha $539,156; G. D. Dennis & Sons, Portlan $553,951.

GRADING, OILING—West Unit, McMi ville Airport-Dayton Jct. Section of Th Mile Lane Highway—1.94 mi., Yamhi County, 3 mi. east of McMinnville; FA S-86(6).

LOW BIDS: O. C. Yokum, McMinnville, $194,852; E. C. Hall, Portland, $223,171; Dolan Construction, Tillamook, $233,732.
DM 6-18. Previous report 6-4

★ATHLETIC FIELD— Portland, Ore.
Award to Harold G. LaVelle, 10430 S.E. Bush St., Portland, $35,600, by Portland School District No. 1, 620 N.E. Halsey St., Portland, for construction of athletic field at Buckman School for use of Washington High School. WB 6-18. Previous report 6-3

■GRADING— Portland, Ore.
Planholders announced for grading 3.098 mi. Oregon Timber Access Road Proj. BLM 36-A, Congdon Creek Road, BLM-Eugene District, Lane County, Ore. Bids will be opened 10 a.m., June 23, by Bureau of Public Roads, 760 Morgan Bldg., Portland.
Planholders: Schutt Construction Co., Box 727, Springfield; Q. L. Rufener, Inc., 4729 S.E. Ash St., Portland; Hamer Corp., Box 428, Roseburg; S. W. Groesbeck, 2387 Alder St., Eugene; Elco Co., Route 2, Box 187, Cornelius; A. H. Saxton & Son, Route 2, Corvallis; Floyd R. Grubb, 1305 S.E. 20th, Salem; Fred Rouse, Box 501, Coquille; Stowers Bros., Box 489, Tillamook; G. D. Rannells, Route 2, Box 264, Aurora; Cedar Creek Logging Co. and Farber & Sherwood Logging Co., Blue River; Timber Access Industries Co., 2399 N. 9th St., Corvallis; M. J. Brassfield, 975 Imperial Drive, Salem; Buchanan Excavating Co., 445 W. 6th, Junction City; Stanton W. Payne, 2475 River Road, Eugene; Austin Construction Co., 1390 Galmia St., Junction City; S. & A. Log Co., Foster; G. T. Walker Construction, Star Route, Canyonville; Vernie Jarl, Box 507, Gresham; Jack Trusty Construction Co., Route 3, Box 300, Roseburg; C. Vern White, Box 153, Lowell; Floyd Grahm Construction Co., Box 215, Lebanon; M.G.A. Logging & Construction Co., Inc., Box 734, Florence; Calkins Crushing Co., Oceanlake; M. L. O'Neil & Son, 375 Horn Lane, Eugene; Lentz Logging Co., 1412 T St., Sweet Home; G. Frank King, 331 N.E. 181st Place, Portland; F. L. Somers, Box 668, Medford.
WB 6-18. Previous report 6-12

★SEWER— Roseburg, Ore.
Award to Den Herder Construction, Box 307, Lebanon, $35,619, by City Council, City Hall, Roseburg, for Hucrest Sanitary Sewer project. Engineer: Kenneth A. Meng, Box 748, Roseburg. LB 6-18. Previous report 6-7

●SITE IMPROVEMENTS—The Dalles, Ore.
Bids will be opened 3 p.m., July 2, by Wasco County School District No. 12, The Dalles, for improvements, including paving, planting and wall construction, at Colonel Wright Elementary School. Plans with superintendent's office. $35 deposit. SC 6-14

●TAXIWAYS, PARKING LOT— Troutdale, Ore.
Bids will be opened 10 a.m., June 25, by Port of Portland, 5848 N. Lagoon Ave., Portland, for construction of taxiways and parking lots at the Troutdale Airport. Plans with port office. $20 deposit. Certified check, cashier's check or bid bond 5%.
Quantities: 50,000 sq. yd. grading; 4,300 c.y. excavation; 12,000 sq. yd. pavement construction; clearing, grubbing; concrete curbs; fencing; miscellaneous drainage and electrical utilities. WB 6-18

WASHINGTON

★SEWER SYSTEM— Aberdeen, Wash.
Awards by city clerk, City Hall, Aberdeen, for construction of interceptor sewers in the city. Specifications by Stevens & Thompson, consulting engineers, 2234 S.W. 4th Ave., (Box 508), Portland, Ore. AWARDS—CONTRACT 1 & 2: Northwood, Inc., 4232 S.E. Cora St., Portland, $714,836; $416,778. CONTRACT 3: Harold Kaeser, 3629 34th Ave. S., Seattle, $517,238. CONTRACT 4: Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam, $115,907.
WB 6-14. Previous report 5-9

●CONCRETE RACEWAYS— Aberdeen, Wash.
Bids to be opened 3 p.m., June 27, by State Director of Game, 509 Fairview Ave., Seattle, for constructing 12 reinforced concrete raceways, water supply pipe lines, concrete curbs, driveways, parking area at the Aberdeen Hatchery near Aberdeen. Plans with above office. $25 deposit. Certified, cashier's check or bid bond 5%.
DC 6-18

■SEWERS, SEWAGE TREATMENT PLANT— Arlington, Wash.
Planholders announced for construction of a sewage treatment plant and lift station (Sched. 1) and installation of storm and sanitary sewers (Sched. 2) at Arlington. Bids will be opened 8 p.m., July 1, by Town Council, Helen Bergan, clerk, Town Hall, Arlington. Specifications with the town clerk and with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.
Planholders: Harold Kaeser, 3629 34th Ave. S.; H. D. Fowler Co., Box 3084; Pacific Waterworks Supply, 2900 1st Ave. S.; Hallgren Co., 1251 1st Ave. S.; Wallace and Tierman, Inc., 2918 Western Ave.; R. H. Brown, Dexter Horton Bldg.; Burnham-Sharpe Co., 1731 1st Ave. S.; Wick Construction Co., 720 N. 35th; Thorburn and Logozo, 4608 36th S.W.; Matt Malaspina and Co., 1901 23rd Ave. S.; Ace Construction Co., 7516 Roosevelt Way; F. M. Taylor, 2108 194th; Valley Construction Co., 7722 Rainier Ave.; Lundberg Construction Co., 3410 Stone Way; B. F. Turnbull, Inc., 4351 Leary Way; Pacific Mechanical Constructors, Inc., Lloyd Bldg. Of Seattle. George V. Nolte, Box 1446, Moses Lake; Pacific Pumping Co., 526 N.W. Broadway, Portland; Process Engineers, P.O. Box 300, Salt Lake City, Utah; Link Belt Co., 400 Paul Ave., San Francisco, Calif.; Walters Construction Co., Mt. Vernon; Milone and Tucci, Inc., 2815 S. Lawrence, Tacoma; Venne Beauchamp, Inc., 2934 Broadway, Everett; Shaffer Construction Co., P.O. Box 814, Everett; Ray N. Erickson, 1512 E. Pioneer, Puyallup; Joe E. Venne, 507 12th St., Sunnyside. IG 6-18. Previous report 6-6

SAGE PROJECT— Blaine AFB, Wash.
(Estimated cost $400,000)
Work will start this summer by Farmers Mutual Telephone Co. on a SAGE project at Blaine AFB, according to Manager Milton Larson. ET 6-18

▲ATHLETIC FIELD IMPROVEMENTS— Camas, Wash.
Bids rejected as too high by School District No. 117, Clark County, Marion Beecher, clerk, Superintendent's Office, Camas, for improvements to athletic field at Camas High School including: (a) 140'x36' concrete and steel grandstand; (b) Field lighting; (c) Chain link fencing. Bids opened June 11. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. WB 6-14. Previous report 6-13

▲ROAD CONSTRUCTION— Chelan, Wash.
Three bids received by U.S. Forest Service, 729 N.E. Oregon St., Portland, Ore. (Box 4137) for constructing approximately 11.74 mi. of Grade Creek Road No. 3001 about 14 mi. northwest of Chelan, Wash., on Wenatchee National Forest. BIDS: Russell-Gillett Co., Box G, Cle Elum, approximately $235,000 (bid was modified by wire); Osberg Construction Co., 1132 N. 128th Ave., Seattle, $267,973; Goodfellow Bros., Inc., Box 598, Wenatchee, $322,844.
WB 6-18. Previous report 5-31

★GRADING— Clallam County, Wash.
Award to Brewer & Rea Construction Co., Orting, $241,895, by Bureau of Public Roads, 760 Morgan Bldg., Portland, for grading, 4.458 mi. Washington FDRP Olympic 295-A, Dungeness Road, Olympic National Forest, Clallam County, Wash.
WB 6-13. Previous report 6-11

STEAM PLANT— Cle Elum, Wash.
Engineering design will be started soon by Burns & Roe, New York, on a proposed coal-fired steam power-generating unit in the Roslyn-Cle Elum area. Kittitas County Public Utility District, Box 357, Ellensburg, will operate the 250,000-kw plant. Design work will be financed by the Washington State Department of Conservation from a $275,000 appropriation by the 1958 legislature. DC 6-5. Previous report 1-30

■JOHN DAY DAM (First Step Cofferdam) Columbia River, Wash.
Planholders announced for construction of the first step cofferdam for John Day Lock and Dam on the Columbia River at river mile 215.7, about six mi. upstream from Maryhill, Klickitat County, Wash.; CIV-ENG-45-164-58-53. Bids to be opened 2 p.m., July 1, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.
Planholders: Henry J. Kaiser Co., 1924 Broadway, Oakland, Calif.; Macco Construction Co., 14409 S. Paramount Blvd., Paramount, Calif.; LeBoeuf-Dougherty Contracting So., 3rd and Cutting Blvd., Richmond, Calif., Guy F. Atkinson, 10 W. Orange Ave., South San Francisco, Calif.; Fred J. Earley Jr. Co., 369 Pine St., San Francisco; McLaughlin, Inc., Box 1824, Great Falls; Winston-Green, Box 1437, Great Falls, Mont.; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Donald M. Drake Co., 1600 N.W. Savier, Portland; General Construction Co., Box 3860, Portland; Carl M. Halvorson, Inc., Box 1449, Portland; Paul Jarvis, Inc., Box 67, Palmer; Montag, Halvorson, Austin & Associates, Box 666, Pasco; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Green Construction Co., 928 Securities Bldg., Seattle.
General Construction Co., Box 3845, Seattle; J. A. Jones Construction Co., Medical Arts Bldg., Seattle; Osberg Co., 1132 N. 128th St., Seattle; Morrison-Knudsen Co. Inc., 603 Hoge Bldg., Seattle; Alton V. Phillips Co., 4055 21st Ave. W., Seattle; Henley Construction Co., 2205 S. 1st., Yakima; Fred H. Slate Co., 7805 S.W. 40th Ave., Portland; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland; Moffett Engineering, Inc., Box 54, Albany, Calif.; Morrison-Knudsen Co., Inc., Box 450, Boise, Idaho; Johnson, Drake & Piper, Inc., 1138 Baker Bldg., Minneapolis, Minn.; Peter Kiewit Sons' Co., 1024 Omaha National Bank Bldg., Omaha, Nebr.; Raymond Concrete Pile Co., 2323 N.W. Flanders St., Portland; Butler Construction and Enginering Co., 3419 13th Ave. S.W., Seattle; Bryon Jackson Co., 314 Lloyd Bldg., Seattle; Goodfellow Bros., Box 1337, Wenatchee; Trinity Dam Contractors, Box 1000, South San Francisco, Calif.; Raymond Concrete Pile Co., 140 Cedar St., New York, N.Y.
S. D. Spencer & Son, 4614 N.E. 72nd Ave., Vancouver; Montag - Halvorson - Cascade - Austin, Box 4, The Dalles, Ore.; Johnson Western Constructors, Box 6, San Pedro, Calif.; L. E. Dixon Co., 409 S. California St., San Gabriel, Calif.; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle; Peter Kiewit Sons' Co., 442 Post St., San Francisco, Calif.
SP 6-14. Previous report 5-28

★GRADING, SURFACING, BRIDGE— Colville, Wash.
Awards by Bureau of Indian Affairs, Interior Bldg., Portland, for grading, surfacing 8.904 mi. Owhi Lake Loop Road, Colville Indian Reservation, five mi. east of Nespelem, Wash.; Proj. CIR 19(1), and for grading and surfacing 8.448 mi. road and constructing one timber trestle, reinforced concrete deck bridge 51' long on Silver Creek Road, Colville Indian Reservation, 30 mi. northeast of Wilbur; Proj. CIR 1(1). AWARDS: Leo L. Lavin, Coulee City, (CIR 19(1) $74,638; C. E. Oneal, Inc., Ellensburg, (CIR 1(1) $165,161.
WB 6-14. Previous report 5-22

●SEWAGE SYSTEM— Cowiche, Wash.
Bids to be opened 2 p.m., July 7, by Town Council, Town Hall, Cowiche, for sanitary sewer system involving constructing trunk laterals and service lines (Sched. A) and sewage lagoon (Sched. B) at Cowiche. Plans with Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.
IG 6-14. Previous report 5-31

★ROAD SEALING— Davenport, Wash.
Award to N. G. Johanson, E. 1828 Trent, Spokane, $25,503, by Lincoln County Com-

missioners, Davenport, for sealing 32.08 mi. rough roads in the county. SC 6-13

▲TRANSMISSION LINE—
Douglas, Grant Counties, Wash.

Nine bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for constructing the 13.6 mi. long Columbia-Quincy 115-kv transmission line No. 1, Douglas and Grant counties, Wash.; Inv. No. 8783. Bids opened June 16. TWO LOW: Key Construction Co., 1601 Taylor Way, Tacoma, $189,298; Power City Electric Co., N. 920 Howard, Spokane, $191,396. HI BID: Lebanon Electric Co., Lebanon, Ore., $231,314. WB 6-18. Previous report 6-12

●CANAL ENLARGEMENT—
Ephrata, Wash.

Bids will be opened 10 a.m., July 29, by Bureau of Reclamation, Box 368, Ephrata, for Potholes East Canal Enlargement, station station 172+00 to station 251+00; and station 510+00 to station 770+00, Columbia Basin Project, Othello, Wash. Spec. No. DC-5068. Specifications with above office. Bid bond 10%.

Quantities: 1,811,000 c.y. excavation; 170,000 c.y. earth lining; 120 c.y. concrete in structures; 38 MBM timber in structures. LB 6-14

●FIRE SIGNAL EQUIPMENT—
Everett, Wash.

Bids will be opened 10 a.m., June 27, by Everett City Commissioners, City Hall, Everett, for installation of fire and police signal alarm equipment, and trenching and installation of lines on five city streets. Specs available with Lee Machin, superintendent of fire and police division, City Hall. Bid bond, certified cashier's check. LB 6-14

SEWAGE TREATMENT PLANT—
Everett, Wash.
(Estimated cost $2,500,000)

Final design is pending clearing of easements, right-of-ways and lease on site for a lagoon type sewage treatment plant and sewer system at Everett. Consulting engineers: Gray & Osborne, 228 S. 2nd St., Yakima. Quantities (sewer system): 64,000' of pipe; 4,200' of 60" tunnel. IG 6-3. Previous report 1-29

★OFFSITE UTILITIES FOR HOUSING—
Fairchild AFB, Wash.

Award to Murphy Bros., E. 3728 Broadway, Spokane, $243,494 by U. S. Air Force, Procurement Office, Fairchild AFB for constructing offsite utilities for family housing at the base; Inv. No. 58-113. LL 6-13. Previous report 5-27

★TRANSMISSION LINE—
Franklin County, Wash.

Award to Power City Electric Co., N. 920 Howard St., Spokane, $107,929, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for constructing 9.2 mi. long Scooteney-Eagle Lake 115-kv Line No. 1, Franklin County; Inv. No. 8770. WB 6-14. Previous report 6-7

STORM SEWERS— Goldendale, Wash.

Bids will be called soon by City Council, City Hall, Goldendale, for construction of storm sewers in the southern part of Goldendale. MH 6-3

REINFORCED CONCRETE BRIDGE—
Goldendale, Wash.

Bids will be called soon by City Council, City Hall, Goldendale, for construction of a 60' long reinforced concrete bridge with 24' roadway plus 4' walkway, steel guard rails and two 30' spans over a center pier, to span the Little Klickitat River in Goldendale. Consulting engineers: Vern Tenneson & Associates, 908½ E. 2nd, The Dalles. MH 6-3. Previous report 9-20

■SECOND STEP COFFERDAM (Stage 1)—
Ice Harbor Lock and Dam, Wash.

Planholders announced for first stage of second step cofferdam, Ice Harbor Lock and Dam; CIVENG-45-164-58-54. Bids will be opened 2 p.m., July 2, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla.

Planholders: Henry J. Kaiser Co., 1924 Broadway, Oakland, Calif.; Macco Construction Co., 14409 S. Paramount Blvd., Paramount, Calif.; LeBoeuf-Dougherty Contracting Co., 3rd and Cutting Blvd., Richmond, Calif.; McLoughlin, Inc., Box 1824, Great Falls, Mont.; J. N. Conley, 4332 N.E. Royal Court, Portland; Donald M. Drake Co., 1600 N.W. Savier, Portland; Carl M. Halvorson, Inc., Box 1449, Portland; Willamette Tug and Barge Co., Foot of N. Portsmouth Ave., Portland; Lewis A. Hopkins & Co., 221 S. 3rd St., Pasco; Montag, Halvorson, Austin & Associates, Box 666, Pasco.

G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd., Portland; Guy F. Atkinson, 10 W. Orange Ave., South San Francisco, Calif.; Peter Kiewit & Sons Co., 1024 Omaha National Bank Bldg., Omaha, Nebr.; Raymond Concrete Pile Co., 2323 N.W. Flanders St., Portland; Green Construction Co., 928 Securities Bldg., Seattle; Morrison-Knudsen Co., 603 Hoge Bldg., Seattle; Peter Kiewit Sons' Co., 442 Post St., San Francisco; Alton V. Phillips Co., 4055 21st Ave. W., Seattle; Mason Construction and Engineering Co., 5209 E. Marginal Way, Seattle; L. E. Dixon Co., 409 S. Gabriel, Calif.; Raymond Concrete Pile Co., 140 Cedar St., New York, N.Y.; Norman I. Fadel, Inc., Box 1084, Eureka, Calif.; M. B. Gilbrough Co., 12556 Bothell Way, Seattle. SP 6-17. Previous report 6-4

★CONCRETE BRIDGE—
King County, Wash.

Award to Lee T. Dulin, Box 35-A, Lakebay, $57,431, by Bureau of Public Roads, 760 Morgan Bldg., Portland, Ore., for constructing 220' reinforced concrete bridge, Washington Forest Development Road Project Snoqualmie 2601-A, Money Creek Road, Money Creek Bridge, Snoqualmie National Forest, King County, Wash. Six bids received June 11. 2ND LOW: Dale M. Madden, 3010 E. 163rd St., Seattle, $59,352. HI BID: Wayne Construction Co., 3810 Stoneway, Seattle, $69,614. Government estimate, $61,685. WB 6-13. Previous report 6-6

▲TIMBER, CONCRETE BRIDGE—
Lewis County, Wash.

Seven bids received by U. S. Forest Service, regional supply office, 729 N.E. Oregon St., Portland, for constructing treated timber (with concrete substructure) Big Creek Bridge on Snoqualmie National Forest, Lewis County, Wash. Bids opened June 12. TWO LOW: Balkwell & Furber, 1217 S.W. 10th Ave., Portland, $8,183; MacKenzie & Smith, 618 13th W., Seattle, $8,472. HI BID: H. & W. Construction Co., Randle, $12,471. WB 6-14. Previous report 6-11

★GRADING, SURFACING—
Mt. Rainier National Park, Wash.

Award has been recommended to Hamer Corp., Box 428, Roseburg, $488,544, by Bureau of Public Roads, 760 Morgan Bldg., Portland, for grading and surfacing 2.385 mi. Nisqually entrance road, Mt. Rainier National Park Proj. 1-B10, Lewis and Pierce counties, Wash. Six bids received for June 13 opening. 2ND LOW: Alfred DeCoria, Box 241, Auburn, $539,945. HI: Babler Bros., 4617 S.E. Milwaukie, Portland, $815,029. BPR estimate, $532,338. WB 6-14. Previous report 6-7

▲WATER TREATMENT FACILITIES
Oak Harbor, Wash.

Bids received by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for constructing additions to water treatment facilities, U.S. Naval Air Station (Ault Field), Whidbey Island, Oak Harbor; Spec. No. 12362/58.

Nine bids received at June 17 bid opening. LOW BIDS: Newland Construction Co., Box 230, Everett, $107,949; G. W. Barr, 8824 John Dower Road S.W., Tacoma, $108,377. HI: Pacific Mechanical Constructors, Inc., Lloyd Bldg., Seattle, $138,000. PD 6-18. Previous report 5-31

●WATER MAIN— Olympia, Wash.

Bids will be received until 8 a.m., July 9, by Public Utility District No. 1, 208 First National Bank Bldg., Olympia, for furnishing and installing 6,950' of 4" to 8", Class 150, asbestos cement pipe, valves hydrants and necessary appurtenances; and 90 of ⅝"x¾" water meter services with necessary appurtenances. Plans and specifications with Howard Harstad & Associates, consulting engineers, 1000 Lenora St., Seattle. [illegible] deposit. Certified check, cashier's check or bid bond, 5%. PD 6-[illegible]

●STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids to be opened 10 a.m., July [illegible] Washington State Highway Commission, Transportation Bldg., Olympia on ten highway construction projects.

PAVING, Steptoe to Cashup—Draining, grading, bituminous surfacing, cement concrete and asphaltic concrete paving [illegible] mi. PSH 3 and 18, Whitman County; [illegible] DF-037-2(6) and DS-0289(5).

Quantities: 642,780 c.y. com. excavation; 111,125 ton crushed stone filler, surface and cover stone; 80 c.y. prime coat aggregate; 331 c.y. riprap; 193 ton asphalt cement; 1,670 ton asphaltic concrete; 48,023 sq. yd. cement concrete pavement; 215' cement concrete curb; 255 c.y. concrete; [illegible] steel reinforcing bars; 2,336' concrete pipe; 182' metal pipe; 268' metal pipe arch; [illegible] beam guard rail.

PAVING, Johnsons Landing North—Clearing, draining, grading, bituminous surfacing, asphaltic concrete paving, [illegible] illumination 2.179 mi. PSH 12, Pacific County; FAP DF-004-1(6), DF-003-1(8).

Quantities: 27 acre clearing; 230,000 c.y. com. excavation; 86,180 ton crushed surfacing, ballast; 100 c.y. riprap; 875 c.y. crushed cover stone, aggregate; 102 ton asphalt cement; 5,910 ton asphaltic concrete; [illegible] precast traffic curb; 79 c.y. concrete; [illegible] 925 lb. steel reinforcing bars; 2,775' concrete pipe; 448' metal pipe; 3,925' beam guard rail.

PAVING, Hedrick-Coleman Road to Kelton Coulee—Draining, grading, cement treated base, bituminous surfacing, asphaltic concrete paving 5.347 mi. PSH 11 Adams County; FAP DF-033-2(7).

Quantities: 235,970 c.y. com. excavation; 10,830 c.y. solid rock excavation; 63,500 ton crushed surfacing, stone, screenings; [illegible] c.y. prime coat aggregate; 1,400 c.y. riprap; 314 ton asphalt cement; 13,415 ton asphaltic concrete; 5,840 bbl. portland cement; [illegible] ton cement treated base; 540' concrete pipe; 3,112' metal pipe; 100' structural plate pipe arch.

PAVING, BRIDGE, Parker to Wapato—Draining, grading, bituminous surfacing, asphaltic concrete paving; reinforced concrete slab bridge; 5.870 mi. SSH 3-A, Yakima County; FAP DF-048-1(3).

Quantities: 16,305 c.y. com. excavation; borrow; 46,740 ton crushed surfacing, ballast, cover stone, screenings; 450 c.y. prime coat aggregate; 285 ton asphalt cement; [illegible] 410 ton asphaltic concrete; 273' concrete pipe; 74' beam guard rail.

PAVING, BRIDGE, Thomle Bridge and Approaches—Draining, grading, asphaltic concrete paving, reinforced concrete slab bridge 0.681 mi. Snohomish County road; FAS S-0329(3).

Quantities: 21,751 c.y. com. excavation; borrow; 4,700 c.y. select road borrow; [illegible] c.y. crushed surfacing; 200 ton riprap; 1,430 ton asphaltic concrete; 45' concrete pipe; 630 c.y. concrete; 177,000 lb. steel reinforcing bars, 490' aluminum bridge rail; 1,100' treated timber piling; 2,640' concrete piling.

PAVING, Quilcene-Center Road Et Al—Bituminous plantmix paving 7.230 mi. Jefferson County roads; FAS DS-0497(6), S-0215(1), S-0496(2).

Quantities: 13,935 ton bituminous plantmix; 4,950' asphaltic concrete curb.

SURFACING, Pullman-Busby Road—Bituminous surfacing 17.240 mi. Whitman County roads; FAS DS-0669(2), DS-0667[illegible] DS-0658(2), S-1154(2).

Quantities: 16,065 c.y. crushed surfacing stone; 468 ton asphalt cement.

PAVING, Bucklin Hill Road to PSH 5—Bituminous plantmix paving 4.070 mi. Kitsap County road; FAS DS-1268(1).

Quantities: 1,060 c.y. crushed surfacing; 12 ton asphalt cement; 5,460 ton bituminous plantmix.

SURFACING, Blockhouse-Canyon Creek—Bituminous surfacing 6 mi. Klickitat County road; FAS S-0398(3).

Quantities: 6,000 c.y. crushed surfacing cover stone; 220 ton asphalt cement.

SURFACING, North Touchet-Fourth St. —Bituminous roadmix surfacing 1.449 mi. Columbia County road; FAS DS-0457(1). Quantities: 2,420 c.y. crushed surfacing, aggregate; 100 ton asphalt cement. DM 6-14

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced on 19 highway construction projects on which bids will be opened 10 a.m., June 24, by Washington State Highway Commission, Transportation Bldg., Olympia.

SURFACING, PSH 5 and SSH 1-P Interchanges—Clearing, draining, grading, bituminous surfacing, installing signs on PSH 1, Lewis County; FAP I-5-2(36)59 Unit 1.

Planholders: Babler Bros. Inc., 4617 S.E. Milwaukie, Portland, Ore.; J. N. Conley, 4332 N.E. Royal Court, Portland; Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver; W. F. Herrett Co., 1619 E. Lynn, Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; Frank Lyons & Co., 5200 N.E. Alberta, Portland; Osberg Construction Co., 1132 N. 128th, Seattle; Pacific Sand and Gravel Co., Box 628, Centralia; Charles R. Watts Co., 4121 6th N.W., Seattle; Erickson Paving Co., 14446 Sunset Highway, Bellevue; Northwest Construction Co., 3950 6th N.W., Seattle; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Reuter & O'Neil and C. W. Thomas & Son, Box 402, Winlock; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Natt McDougall Co., 824 Pittock Block, Portland.

SURFACING, Riverside to Janis—Draining, grading bituminous surfacing 8.265 mi. PSH 10, Okanogan County; FAP No. DF-029-2(17).

Planholders: Russell-Gillett Co., Box G, Cle Elum; Osberg Construction Co., 1132 N. 128th, Seattle; C. E. Oneal, Inc., Box 270, Ellensburg; Murphy Bros. Inc., E. 3728 Broadway, Spokane; Donald M. Drake Co., 1600 N.W. Savier, Portland; F. H. De Atley & Co., Box 648, Lewiston, Idaho; K. C. Dack Construction Co., Box 642, Pendleton, Ore.; Curtis Construction Co., Box 106, Spokane; James Crick & Sons, Box 102, Yardley; Carbon Bros., N. 3430 Cook, Spokane; Frank G. Baulne Inc., Box 84, Yardley; Babler Bros. Inc., 4617 S.E. Milwaukie, Portland; Standard Asphalt Paving Co. Inc., N. 119 Post, Spokane; S. H. Edinger Gravel Co., Box 283, Erickson Paving Co., Bellevue; Northwest Construction Co., Seattle; S. D. Spencer & Son, Vancouver; Cherf Bros. Inc. and Sandkay Contractors Inc., Box 938, Ephrata; P. J. Anderson & Sons, 13501 Aurora, Seattle; Grant Construction Co., Box 351 Coeur d'Alene, Idaho; Maurice Gredvig, Box 301, Yakima; J. W. Hardison Co., Box 38, Yakima; Natt McDougall, Portland; C. W. Bignold, Box 126, Elma; F. R. Hewett Co., Spokane; Materne Bros., Spokane; D. A. Sullivan, Box 37, Parkwater Station, Spokane.

PAVING, Getchell Road to Arlington—Draining, grading, bituminous surfacing, asphaltic concrete paving 7.612 mi. SSH 1-A, Snohomish County; FAS DS-0202(9) and State Project.

Planholders: The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; S. D. Spencer & Son, Vancouver; Morrison & Co. Inc., Box 597, Walla Walla; Wilder Construction Co. Inc., 1840 State, Bellingham; Washington Asphalt Co., 309 W. 39th, Seattle; Pacific Sand and Gravel Co., Box 628, Centralia; W. F. Herrett Co., Seattle; Hardisty Construction Co Inc., 219 Medical Arts Bldg., Vancouver; J. M. Conley, Portland; Acme Construction Co., Box 651, Redmond.

ROADMIX, Summit to Berne—Clearing, draining, grading bituminous roadmix on 1.553 mi. PSH 15, Chelan County, FAP F-024-2(1).

Planholders: Osberg Construction Co., 1132 N. 128th, Seattle; Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane; Northwest Construction Co., Seattle; S. D. Spencer & Son, Vancouver; Murphy Bros. Inc., Spokane; P. J. Anderson & Sons, Seattle; Natt McDougall Co., Portland; Russell-Gillett Co., Box G, Cle Elum; Frank G. Baulne Inc., Box 84, Yardley; Carbon Bros., Spokane; J. N. Conley, Portland; Curtis Construction Co., Box 106, Spokane; C. E. Oneal Inc., Ellensburg; Strong & Macdonald Inc., 4045 Ruston Way, Tacoma; Materne Bros. Co., Spokane.

PAVING, Gorst West—Clearing, draining, grading bituminous surfacing, asphaltic concrete paving, illumination 1.705 mi. PSH 21, Kitsap County; FAP F-001-1(1).

Planholders: Blossom Bros. Construction Co., Suquamish; Strong & Macdonald Inc., Tacoma; The Harrison Bros. Co., Tacoma; P. J. Anderson & Sons, Seattle; Morrison-Cecotti, Box 388, Mount Vernon; Thomas Ecalzo Co., 3211 Airport Way, Seattle; Northwest Construction Co., Seattle; Lake City Gravel and Materials Inc., Seattle; Hardiston Construction Co., Inc., Vancouver; H. N. Conley, Portland.

GRADING, Staples Creek to Johnson Creek—Clearing, draining, grading 2.081 mi. SSH 1-S, Cowlitz County, FAS DS-0260(4).

Planholders: C. W. Thomas & Son, Winlock; Natt McDougall Co., Portland; P. J. Anderson & Sons, Seattle; S. D. Spencer & Sons, Vancouver; Q. L. Rufener Inc., 4729 S.E. Ash, Portland; Archie Radakovich, 2361 E. Lynnwood Drive, Longview; Northwest Construction Co., Seattle; Ray Kizer, 3760 S. W. Jerald Court, Portland; Erickson Paving Co., Bellevue; Osberg Construction Co., Seattle; Frank Lyons & Co., 5200 N.E. Alberta, Portland; C. J. Eldon, Box 5686, Portland; J. N. Conley, Portland; J. Bacaloff Co., 6009 N.E. 60th, Portland; Babler Bros. Inc., Portland.

PAVING, Kiona to Richland Wye—Asphaltic concrete paving 10.847 mi. PSH 3, Benton County; FAP DF-018-4(9).

Planholders: Porter W. Yett, 6500 N.E. Ainsworth, Portland; Yakima Cement and Asphalt Paving Co., Box 436, Yakima; S. D. Spencer & Son, Vancouver; Columbia Asphalt Paving Co., 207 Masonic Temple Bldg., Yakima; Morrison & Co., Inc., Box 597, Walla Walla; Warren Northwest Inc., Box 5072, Portland; Hardiston Construction Co. Inc., Vancouver; F. H. De Atley & Co., Lewiston, Idaho; Curtis Construction Co., Spokane; J. C. Compton Co., Box 86, McMinnville, Ore.; Clifton & Applegate, Box 8, Yardley; Carbon Bros., Spokane; Babler Bros. Inc., Portland; Acme Construction Co., Box 651, Redmond; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; McAtee & Heathe Inc., Box 4187 Station B., Spokane; L. W. Vail Co. Inc., 1948 N. 4th, Pasco; F. R. Hewett, Spokane.

PAVING, Dixie to Waitsburg—Asphaltic concrete paving 10.703 mi. PSH 3, Walla Walla County, FAP DF-018-5(3).

Planholders: Basin Paving Co., Box 1574, Moses Lake; Grant Construction Co., Coeur d'Alene, Idaho; McAtee & Heathe Inc., Spokane; L. W. Vail Co., Inc., Pasco; F. R. Hewett Co., Spokane; Acme Construction Co., Redmond; Babler Bros. Inc., Portland; Frank G. Baulne Inc., Yarley; Carbon Bros., Spokane; Clifton & Applegate, Yardley; J. C. Compron Co., McMinnville, Ore.; Curtis Construction Co., Spokane; F. H. DeAtley & Co., Lewiston, Idaho; Hardisty Construction Co., Inc., Vancouver; Warren Northwest Inc., Portland; Morrison & Co. Inc., Walla Walla; S. D. Spencer & Son, Vancouver; Yakima Cement and Asphalt Paving Co., Yakima; Porter W. Yett, Portland; Columbia Asphalt Paving Co., Yakima.

PAVING, Indian Creek to Wildcat Creek—Draining, grading, asphaltic concrete paving 6.950 mi. PSH 5, Yakima County; FAP DF-016-2(5).

Planholders: Yakima Cement and Asphalt Paving Co., Yakima; Columbia Asphalt Paving Co., Yakima; Grant Construction Co., Coeur d'Alene, Idaho; Maurice Gredvig, Yakima; McAtee & Heathe Inc., Box 1487, Station B, Spokane; F. R. Hewett Co., Spokane; Acme Construction Co., Redmond; Carbon Bros., Spokane; Clifton & Applegate, Yardley; J. C. Compton Co., McMinnville, Ore.; Curtis Construction Co., Spokane; Hardisty Construction Co. Inc., Vancouver; Washington Asphalt Co., Seattle; DeAtley Paving and Crushing Inc., 809 S. 3rd, Yakima; Morrison & Co. Inc., Walla Walla; S. D. Spencer & Son, Vancouver.

PAVING, Murphys Corner to Winchester Wasteway—Asphaltic concrete paving and bituminous surfacing 9.180 mi. PSH 7, Grant County, FAP DF-031-1(7).

Planholders: Carbon Bros., Spokane; Clifton & Applegate, Yardley; J. C. Compton, McMinnville; Curtis Construction Co., Spokane; Hardisty Construction Co Inc., Vancouver; Washington Asphalt Co., Seattle; Morrison & Co. Inc., Walla Walla; S. D. Spencer & Son, Vancouver; Yakima Cement and Asphalt Paving Co., Yakima; Basin Paving Co., Moses Lake; Grant Construction Co., Coeur d'Alene, Idaho; McAtee & Heathe Inc., Spokane; L. W. Vail & Co., Inc., Pasco; F. R. Hewett Co., Spokane.

PAVING, Morris St. to Burnett St. in Renton—Asphaltic concrete paving 3.137 mi. State Highways 2, 2-D, 5-M, King County, FAP projects.

Planholders: Rainier Asphalt Paving Co., Box 444, Renton; Washington Asphalt Co., Seattle; Acme Construction Co., Redmond.

PAVING, Kessler Blvd. to Washington Way—Asphaltic concrete paving 1.187 mi. PSH 12, Cowlitz County.

Planholders: The United Contracting Co., Box 5075, Portland; American Bitumuls and Asphalt Co., Box 4062, Portland.

CLEARING, FENCING, Trosper Road to Martin Way—Clearing, fencing 6.462 mi. PSH 1, Thurston County, FAP I-5-2(32)102.

Planholders: Alton V. Phillips Co. & Associates, 4055 21st Ave. W., Seattle; San Jose Steel Co. Inc., 131 W. Massachusetts, Seattle; United States Steel Corp., Cyclone Fence Division, 911½ Pacific Ave., Tacoma.

SURFACING, Trent Road—Draining, grading, bituminous surfacing 5.878 mi. Spokane County road, FAS S-0470(1).

Planholders: D. A. Sullivan, Spokane; Materne Bros. Co., Spokane; F. R. Hewett Co., Spokane; Grant Construction Co., Coeur d'Alene, Idaho; Standard Asphalt Paving Co. Inc., Spokane; Murphy Bros. Inc., Spokane; Curtis Construction Co., Spokane; Clifton & Applegate, Yardley; Carbon Bros., Spokane; Frank G. Baulne Inc., Yardley.

PAVING, W. 27th St. and Day Island Approach—Draining, grading, bituminous surfacing, asphaltic concrete paving 1.145 mi., Pierce County road, FAS DS-1301(1).

Planholders: Hardisty Construction Co. Inc., Vancouver; Asphalt Paving and Engineering Co., Vancouver; Asphalt Paving and Engineer Co., Tacoma; Woodworth & Co. Inc., 9757 Greenwood, Seattle; Woodworth & Co. Inc., Tacoma; The Harrison Bros. Co., Tacoma; Paine & Gallucci Inc., 1521 S. Grant, Tacoma.

PAVING, Lake Whatcom Blvd.-Cable St.—Draining, grading, asphaltic concrete paving, bituminous surfacing 0.737 mi. Whatcom County road, FAS S-0766(4).

Planholders: Morrison-Cecotti, Box 388, Mount Vernon; Osberg Construction Co., Seattle; Wilder Construction Co. Inc., Bellingham; Joe A. Jussell, 2084 Dellesta Drive, Bellingham; Associated Sand and Gravel Co., Box 914, Everett; United Concrete Pipe Corp., Box 467, Auburn.

PAVING, Spanaway Loop Road, Military Road—Asphaltic concrete paving 3.740 mi. Pierce County roads, FAS projects.

Planholders: Hardisty Construction Co. Inc., Vancouver; Asphalt Paving and Engineering Co., Tacoma; Woodworth & Co. Inc., Tacoma.

GRADING, Delameter Road — Draining, grading 0.550 mi. Cowlitz County Road, FAS DS-0709(2).

Planholders: C. W. Thomas & Son, Box 402, Winlock; Roller Bros., 1502 Schaffron Road, Castle Rock; S. D. Spencer & Son, Vancouver; Q. L. Rufener Inc., Portland; Archie Radakpvich, Longview; LeVelle Construction Co., 10430 S.E. Bush, Portland; Frank Lyons & Co., 5200 N.E. Alberta, Portland; C. J. Eldon, Portland; J. N. Conley, Portland.

PLANTMIX, 8th St. to Lauridson Blvd. in Port Angeles—Grading, bituminous plantmix paving 0.068 mi. SSH 9-A, Clallam County, a State Project.

Planholders: Wilson & Simpson, Box 1070, Port Angeles; Acme Construction Co. Redmond; United Concrete Pipe Corp., Auburn; American Bitumuls and Asphalt Co., Portland. DM 6-17. Previous report 6-6

★LIGHT BITUMINOUS SURFACING— Olympia, Wash.

Award to S & S Surfacing Co., 8328 15th N.W., Seattle, $51,895 by Thurston County Commissioners, Courthouse, Olympia, on 34.89 mi. light bituminous surfacing on 22 sections of county road.

DM 6-13. Previous report 6-6

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids were opened June 17 by Washington State Highway Commission, Transportation

Bldg., Olympia, in ten highway construction projects.

PAVING, Portage Creek to Conway Jct.—Clearing, draining, grading, cement concrete and asphaltic concrete paving, bituminous surfacing, illumination on 11.239 mi. PSH No. 1 Snohomish and Skagit counties; FAP No. I-54(9)208.

LOW BIDS: Northwest Construction Co., 3950 6th N.W., Seattle, $1,281,938; N. Fiorito Co., 844 W. 48th, Seattle, $1,425,065; Fiorito Bros., 1100 Leary Way, Seattle, $1,478,679. Bid bids.

CLEARING, GRADING, Knappton to Bean Creek—Clearing, draining, grading 2.675 mi. SSH No. 12-B, Pacific County; FAP No. DF-003-1(6).

LOW BIDS: Fred H. Slate Co. Oregon Ltd., 7805 S.W. 40th, Portland, $434,078; Erland & Blickle, and Frank Lyons Co., 8265 Borthwick, Portland, $558,736; Osberg Construction Co., 1132 N. 128th, Seattle, $562,176. Seven bids.

BRIDGE PIERS, Columbia River Bridge at Beebe-Piers Nos 2 and 3—Two reinforced concrete bridge piers on SSH No. 10-D, Douglas and Cehlan counties; FAS No. S-0041(1). Involves 7,720 c.y. concrete; 223,000 lb. steel reinforcing bars.

LOW BIDS: Alton V. Phillips Co. & Associates, 4055 21st W., Seattle, $428,530; Mac Rae Bros., 5900 2nd S., Seattle, $439,380; General Construction Co., Box 3845, Seattle, $453,360. Ten bids.

BITUMINOUS SURFACING, Grouse Creek to Cottonwood Creek Road—Clearing, draining, grading, bituminous surfacing 5.910 mi. PSH No. 3, Stevens County; FAP No. DF-041-2(2).

LOW BIDS: C. E. Oneal, Inc., Box 270, Ellensburg, $325,597; Grant Construction Co., Box 351, Coeur d'Alene, $352,343; Max J. Kuney, N. 120 Ralph St., Spokane, $354,041. Nine bids.

BRIDGES, PAVING, Cora Bridge to Burton Creek—Clearing, draining, grading, asphaltic concrete paving, two reinforced concrete flat slab bridges 1.390 mi. PSH No. 5, Lewis County; FAP No. F-016-1(7).

ONLY BID: Troy T. Burnham Co., 18666 Beverly Road, Seattle, $240,603.

PAVING, SURFACING, Burlington to Allen, et al—Asphaltic concrete paving and bituminous surfacing 6.520 mi. SH Nos. 1 and 1-A, Skagit and Whatcom counties; FAS Nos. DS-0993(3), DS-0201(1), DS-0202(10).

ONLY BIDS: Wilder Construction Co., Inc., 1840 State, Bellingham, $112,057; Associated Sand and Gravel Co., Box 914, Everett, $116,190.

BRIDGE, Hoko River Bridge and Approaches—Grading, constructing precast prestressed concrete girder bridge on 0.009 mi. Clallam County road; FAS No. S-1243 (1).

ONLY BIDS: Louis Elterich Co., Box 868, Port Angeles, $65,351; Wilson & Simpson, Box 1070, Port Angeles, $66,751; Owens Bros., Railroad and Oak, Port Angeles, $68,700.

BRIDGE, Deep Creek Bridge and Approaches—Draining, grading, surfacing, constructing reinforced concrete girder bridge on 0.730 mi. Spokane County road; FAS No. S-1104(1).

LOW BIDS: Ralph E. Clapp, Yardley, $69,942; Walter G. Meyers & Son, Spokane, $70,524; Carl Hohner & Sons, Spokane, $70,663. Eight bidders.

PAVING, Gravelly Lake Drive—Draining, grading, asphaltic concrete paving 1.014 mi. Pierce County road; FAS No. S-0547(2).

LOW BIDS: Paine & Galiucci, Inc., 1521 S. Grant, Tacoma, $99,412; Cascade Asphalt Paving Co., 6238 S. Tacoma Way, Tacoma, $104,719; Asphalt Paving and Engineering Co., Box 356, Tacoma, $107,100. Four bids.

SURFACING, EMULSIFIED ASPHALT BASE, Haapa East and Munch West—Emulsified asphalt base and bituminous surfacing 2.640 mi. Clark County road; FAS No. S-0590(6).

LOW BIDS: C. W. Thomas & Son, Box 402, Winlock, $33,987; Horton Construction Co., 312 N. Schmeer Road, Portland, $39,995; Hardisty Construction Co., Inc., Medical Arts Bldg., Vancouver, $47,125. Four bids.

▲CLEARING, TRANSMISSION LINE— Pacific County, Wash.

Six bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing a portion of right-of-way and constructing 4.5 mi. long Raymond-Willapa River 115-kv line No. 1, Pacific County; Inv. No. 8772. Bids opened June 16. TWO LOW: R. C. Hughes Co., 2105 N. Airport Way, Spokane, $77,151; Nichols Construction Co., Box 336, Grandview, $79,226. HI BID: North Idaho Construction Co., Box 190, Coeur d'Alene, Idaho, $92,438.

WB 6-18. Previous report 6-12

DOCKING FACILITIES— Pasco, Wash.

Plans announced by Port of Pasco, Del Isaacson, port manager, Port Docks, Pasco, for construction of additional docking space at the port. SC 6-7

●PAVING, CURBS, GUTTERS— Pasco, Wash.

Bids to be opened 8 p.m., P.S.T., July 1 by City Council, City Hall, Pasco for 21,400' concrete gutter and curb and gutter, 5,350 ton asphaltic concrete pavement 2" thick, 5,300 ton base rock, 28 catch basins, drainage. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 628 Idaho Bldg., Boise. Plans may be obtained from Adah M. Perry, city clerk, City Hall, Pasco. $40 deposit. Certified, cashier's check, or bid bond 5%. DC 6-18

★BITUMINOUS PAVING— Pierce and Lewis Counties, Wash.

Award to Pieler Construction Co., 205 E. 8th St., Port Angeles, $444,759, by Bureau of Public Roads, 760 Morgan Bldg., Portland, for 13.689 mi. bituminous paving, Mt. Rainier National Park Project 5-A5, B3, C3, D6, East Side Road, Pierce and Lewis counties.

WB 6-17. Previous report 6-4

●WATER SUPPLY PIPELINE— Port Townsend, Wash.

Bids to be opened 5 p.m., July 1, by City Council, Gale I. Youngblood, city clerk, City Hall, Port Townsend, for constructing 25,000' of 30" steel water supply pipeline. Pipe is to be furnished by the city at trench site. Plans with the clerk. $5 deposit. Work includes trenching, backfilling, installing, coupling, testing and connecting pipe. SC 6-17

●CHLORINATION STATIONS, WATER LINES— Richland, Wash.

Bids will be opened June 23 by Atomic Energy Commission, Box 550, Richland, for water and sewer improvements, including constructing two chlorination stations, sanitations, sanitary sewer line and service line, at Richland. Specifications with above office. SP 6-18

●COPPER CABLE— Seattle, Wash.

Bids will be opened 10 a.m., June 30, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 18,528 lb. copper cable. Specifications with above office. PD 6-17

★CRUSHED STONE SURFACING— Seattle, Wash.

Award to Anderson & Johnson, 11037 Roosevelt Way, Seattle, $27,954, by King County Commissioners, 402 County City Bldg., Seattle, for clearing, drainage, grading, surfacing with crushed stone 1.0 mi. of N.E. 133rd St. (Seidel Road), northeast of Redmond. SP 6-17. Previous report 6-3

▲STEAM, PUMPED CONDENSATE PIPING— Seattle, Wash.

Bids received by Board of Regents, University of Washington, Seattle, for furnishing and installing new 185 psi steam piping and pumped condensate piping in existing tunnels, to serve the Hospital and Health Science Building area of campus. Consulting engineers: Bouillon, Griffith & Christofferson, 1411 Fourth Avenue Bldg., Seattle.

Seven bids received at June 16 bid opening. LOW BIDS: Bumstead-Woolford, 1411 Fourth Avenue Bldg., Seattle, $75,038; Navarre-Botting, 3839 Stone Way, Seattle, $103,690. HI: L. E. Ballou, 4803 14th N.W., Seattle, $113,324.

PD 6-17. Previous report 5-31

▲ELECTRIC SERVICE ALTERATIONS, ADDITIONS— Seattle, Wash.

Bids received by Board of Regents, University of Washington, Seattle, for furnishing and installing new 25-kv electric ser... to campus from utility company, and ... stalling owner furnished materials, to ... entire campus. Consulting engineers: Bo... lon, Griffith & Christofferson, 1411 Fou... Avenue Bldg., Seattle.

Five bids received at June 16 bid open... LOW BIDS: Selo Electric Co., Inc., 109... 38th, Seattle, $19,240; Donald W Close ... $20,400. HI: Industrial Electric Co., ... Yale, Seattle, $24,995.

PD 6-17. Previous report ...

●MAINTENANCE DREDGING— Seattle, Wa...

Bids to be opened 2 p.m., June 2... Corps of Engineers, Seattle office, 1... Alaskan Way, Seattle, for dredging and ... posal of 74,500 c.y. in the proximity of ... Great Northern Railway Bridge and ... areas near the University and Mer... bridges, Lake Washington Ship Ca... Puget Sound to Lake Washington, Seatt... CIVENG-45-108-58-42. Plans with ... office. SP 6...

●ASPHALTIC CONCRETE PAVING— Seattle, Wa...

Bids will be opened 9:30 a.m., June ... by King County Commissioners, 402 Cou... City Bldg., Seattle, for bituminous ... sealing and resurfacing by asphaltic ... crete overlay 1,700' runway at King Cou... Airport (Boeing Field). Plans and specifi... tions with engineer's office, 905 Cou... City Bldg., Seattle. $10 deposit. Certi... check, cashier's check, bid bond 5%.

Quantities: 11,800 ton asphaltic concr... pavement, class B; 13 ton asphalt cem... for tack coat; 50 ton asphalt cement for ... sealing; drill 450 holes; 3,000' clean and ... seal existing joints. PD 6...

★SCHOOL ATHLETIC FIELD— Seattle, Wa...

Award to B. F. Turnbull, Inc., 4351 Le... Way, Seattle, $9,100 (no yard sprinkler ... cluded), by Seattle School District No. ... 815 4th Ave. N., Seattle, for furnishing a... installing cyclone fencing, cinder tra... backstops, jump pits and grading at Mer... Junior High School athletic field, ... Columbian Way, Seattle.

SP 6-13. Previous report 5...

SEWAGE COLLECTION SYSTEM, DIS... POSAL PLANT— Seattle, Wa...

(Estimated cost over $4,000,000)

Public hearing on assessment roll will ... held early in October by Ronald Se... District, concerning construction of a se... age collection system and disposal pl... in ULID No. 1, which was formed in M...

PD 6-14. Previous report ...

★AIR COMPRESSOR, HYDRAULIC CRA... Seattle, Wa...

Awards announced by Paul R. Hendri... city purchasing agent, 511 County C... Bldg., Seattle, for furnishing a porta... air compressor, and for furnishing tru... mounted hydraulic crane, clamshell buck... AWARDS—Air Compressor: Air Equipm... Rentals, Inc., 2800 Thorndyke, Seattle, $13... Hydraulic Crane: Clyde Equipment Co., ... 10th S., Seattle, $11,837.

PD 6-14. Previous report ...

★ELECTRIC LIFT— Seattle, Wa...

Award to only bidder Telsto Corp., ... Spring St., Redwood City, Calif., $10,725, ... Paul R. Hendricks, city purchasing age... 511 County City Bldg., Seattle, for fu... lishing one Telsta Lamplighter model T... electric lift. PD 6-14. Previous report ...

●LATERAL SEWER —(Contract No. 3)— Seattle, Wa...

Bids will be received until 8 p.m., Ju... 10, by Lake City Sewer District, 12721 3... N.E., Seattle, for construction of 43,375' ... 6" to 24" pipe sewer, including 154 standa... manholes and 8 drop manholes (Contra... No. 3), in ULID No. 3, to become an i... tegral part of the santiary-sewer syste... of the district. Contract plans and spec... fications with Hill & Ingman, consulting e... gineers, 3104 Western Ave., Seattle. ... charge (specifications), $10 charge (plan... Standard specifications with City of Seat...

engineering department, 404 County City Bldg., Seattle. $4 charge. Certified check, 5%. PD 6-18

●LATERAL SEWER (Contract No. 4)—
Seattle, Wash.

Bids will be received until 8 p.m., July 14, by Lake City Sewer District, 12721 30th N.E., Seattle, for construction of 34,270' of 8" to 15" pipe sewer (Contract No. 4), in ULID No. 3, to become an integral part of the sanitary-sewer system of the district. Contract plans and specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. $3 charge (plans). Standard specifications with City of Seattle engineering department, 404 County City Bldg., Seattle. $4 charge. Certified check, 5%. PD 6-18

●LATERAL SEWER (Contract No. 1)—
Seattle, Wash.

Bids will be received until 8 p.m., July 3, by Lake City Sewer District, 12721 30th Ave. N.E., Seattle, for construction of 50,440' of 6" to 10" pipe sewer, including 11 drop manholes and 204 standard manholes, (Contract No. 1), in ULID No. 3, to become an integral part of the sanitary-sewer system of the district. Contract plans and specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. $3 charge (specifications). $10 charge (plans). Standard specifications with City of Seattle engineering department, 404 County City Bldg., Seattle. $4 charge. Certified check, 5%. PD 6-18

●LATERAL SEWER (Contract No. 2)—
Seattle, Wash.

Bils will be received until 8 p.m., July 7, by Lake City Sewer District, 12721 30th N.E., Seattle, for construction of 42,662' of 6" to 18" pipe sewer, including 159 standard manholes and five drop manholes (Contract No. 2), in ULID No. 3, to become an integral part of the sanitary-sewer system of the district. Contract plans and specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. $3 charge (specifications). $10 charge (plans). Standard specifications with City of Seattle engineering department, 404 County City Bldg., Seattle. $4 charge. Certified check, 5%. PD 6-18

●TRUNK SEWER— Seattle, Wash.

Bids will be received until 8 p.m., June 30, by Lake City Sewer District, 12721 30th Ave. N.E., Seattle, for construction of 13,415' of 6" to 30" pipe sewer, including 33 trunk manholes and 41 standard manholes, in ULID No. 3, to become integral part of sanitary-sewer system of the district. Contract plans and specifications with Hill & Ingman, consulting engineers, 3104 Western, Seattle. $3 charge (specifications), $10 charge (plans. Standard specifications with City of Seattle engineering department, 404 County City Bldg., Seattle. $4 charge. Certified check, 5%. PD 6-18

●LATERAL SEWER (Contract No. 5)—
Seattle, Wash.

Bids will be received until 8 p.m., July 17, by Lake City Sewer District, 12721 30th N.E., Seattle, for construction of 43,470' of 6" to 18" pipe sewer, including 152 standard manholes (Contract No. 5), in ULID No. 3, to become an integral part of the sanitary-sewer system of the district. Contract plans and specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. $3 charge (specifications), $10 charge (plans). Standard specifications with City of Seattle engineering department, 404 County City Bldg., Seattle. $4 charge. Certified check, 5%. PD 6-18

★CLEARING, TRANSMISSION TAP LINES
Snohomish County, Wash.

Award to Tyee Construction Co., 1901 23rd Ave. S., Seattle, $83,686, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing and constructing Snohomish-Beverly Park No. 3 steel tower and wood pole 115-kv transmission line No. 3, installing footings for Snohomish-Bothell towers 3/7 and 3/8, clearing and constructing wood pole Snohomish tap line to P.S.P. and L. Co. Eastside line, rebuilding westerly portion of Snohomish-Beverly Park wood pole transmission No. 1, and marking Snohomish-Beverly Park line No. 1, Snohomish County, Wash.; Inv. No. 8774. WB 6-14. Previous report 6-11

▲PAVING— Spokane, Wash.

Three bids received June 13 by Spokane County Commissioners, Courthouse, Spokane, for production and placing about 6,250 ton asphaltic concrete pavement, class B, for the 1958 Valley Paving Project; CRP No. 369. BIDS: Sullivan Paving Co., Box 37, Parkwater Station, Spokane, $62,828; Inland Asphalt Co., Box 4116, Station B, Spokane, $63,727; S & F Construction Co., Route 2, Box 188, Spokane, $65,103.
SP 6-17. Previous report 6-7

●WATER PIPELINE—Sultan River, Wash.
(Estimated cost $3,850,000)

Bids to be opened 10 a.m., July 10, by City Council, City Hall, Everett, for installing pipe in Unit No. 2 of Sultan River transmission pipe line. Plans with John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland, or with city clerk, City Hall, Everett. $20 deposit. Certified, cashier's check or bid bond 5%.

Unit No. 2 extends from outlet portal of Tunnel No. 2 to Panther Creek screening plant, a total distance of about 38,500'. The pipe will be 52" inside diameter with heads running to 260'. Alternate bids on electric arc welded steel pipe and concrete cylinder pipe. DC 6-18

▲STREET IMPROVEMENTS—
Vancouver, Wash.

Four bids received by R. E. Moisant, purchasing agent, City Hall, Vancouver, for street improvements in L.I.D. 249 (E. 16th St., etc.) Bids opened June 11. TWO LOW: Clark Co. Road & Driveway Co., 1314 W. 16th, Vancouver, $11,714; Portland Road & Driveway Co., 7295 S.E. King Road, Portland, $12,242. HI BID: Parker-Fuhrman Co., 11524 S.E. Foster Road, Portland, $13,278.
WB 6-13. Previous report 6-4

★HIGHWAY, RAILROAD RELOCATION—
Wenatchee, Wash.

Award to Goodfellow Bros., Ferry and Mission, Wenatchee, $1,889,895, by Chelan County Public Utility District, 327 N. Wenatchee Ave., Wenatchee, for constructing the first section of highway and rail relocation on the west bank of Columbia River at the Rocky Reach hydroelectric project. Plans by Stone & Webster Engineering Corp., Box 158, Wenatchee.
SP 6-13. Previous report 6-3

DRAINAGE SYSTEM— Yakima, Wash.

Bids will be called this fall by Yakima County Commissioners, Courthouse, Yakima, for construction of a drainage system in the neighborhood of Nob Hill Blvd., west of Glenside, east of the Condon Road and thence north to the Tieton Ditch, in Yakima County. Final plans have been completed by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima.

Quantities: 25,800' pipe; 28,000 yd. excavation and backfill; 2,500 yd. filter media; 46 manholes; 42 catch basins.
IG 6-7. Previous report 1-8

●WEATHERPROOFING PIPE—
Yakima, Wash.

Bids to be opened 1 p.m., P.S.T., June 24 by Department of Army, Purchasing and Contracting Office, Fort Lewis for covering all exterior overhead steam mains and sewer services with aluminum weatherproof jacketing over existing fiberglass insulation at Yakima Firing Center, Yakima; AVI-58-300. DM 6-14

IDAHO

★STATE HIGHWAY PROJECT—
Boise, Idaho

Award to Robert V. Burggraft Co., S. Highway, Idaho Falls, $28,921, by Department of Highways, 603 Main, Boise, on plantmix bituminous surfacing on Gooding Tuberculosis Hospital driveways, Gooding County; Proj. No. ST-2371(502). Bids were opened June 10.
DM 6-17. Previous report 6-4

▲PUMPHOUSE, FUEL STORAGE, WATER LINES, PAVING— Boise, Idaho

Bids received by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for constructing Air National Guard P.O.L. facility, involving 1,470 sq. ft. masonry pumphouse, jet fuel storage tank, fuel and water lines, paving and fencing, at Gowen Field, Boise; ENG-45-164-58-62.

Three bids received for June 12 opening. BIDS: Hood Construction Co., Whittier, Calif., $201,527; Intermountain Co., Box 1652, Boise, Idaho, $231,756; Teller Construction Co., 845 N. Graham, Portland, $247,102. Engineer's estimate, $216,236.
SP 6-13. Previous report 5-17

▲STATE HIGHWAY PROJECT—
Boise, Idaho

Bids which were opened June 3 have been rejected by Department of Highways, 603 Main St., Boise, for seal coating 17.116 mi. U.S. 89 and furnishing crushed rock and cover coat material in stockpiles on U. S. 89, east of Montpelier, Utah Line-St. Charles and St. Charles-Paris, Bear Lake County, FAP No. F-1531(4), State Proj. No. ST-M-1531(506), Stockpile No. 198.
SP 6-13. Previous report 5-20

▲WATERMAINS, FILTER PLANT—
Bonners Ferry, Idaho

Bids are being held for study on water filtration plant and pump station (Sched. 1), transmission line (Sched. 2) and supply line replacement (Sched. 3) at Bonners Ferry. Four bids on Sched. 1, three on Sched. 2 and six on Sched. 3 were received for the June 10 opening by Harold Buroker, clerk, Village Hall, Bonners Ferry. Consulting engineers: Gray & Osborne, 228 S. 2nd St., Yakima. SCHED. 1—TWO LOW: Hansen & Parr, W. 315 Boone, Spokane, $173,012; Schimmels & Co., Box 262, Dishman, $182,699. HI: Ralph E. Clapp & Sons, Box 10, Yardley, $184,954. SCHED. 2—BIDS: Hood Construction Co., 1301 S. Capitol Blvd., Boise, $13,276; Schimmels & Co., Dishman, $14,245; Hansen & Parr, Spokane, $22,525. SCHED 3—LOW BIDS: Schimmels & Co., $43,436; Hood Construction Co., Boise, $52,312; W. L. Ridge, 3122 Sharp, Spokane, $54,570.
SC 6-13. Previous report 6-3

★ASPHALTIC CONCRETE PAVING—
Coeur d'Alene, Idaho

Award to Inland Asphalt Co., Box 4116, Station B, Spokane, $90,117, by City Council, City Hall, Coeur d'Alene, for 88,350 sq. yd. 2" asphaltic concrete paving on 17 city streets in LID 82. Two bids received June 2. OTHER BID: United Paving Co., Route 4, Box 150, Spokane, $97,185.
SP 6-10. Previous report 5-27

★EARTH FILL DAM, CHANNELS, DIKES— Idaho Falls, Idaho

Award to T & S Construction Co., Box 1114, Twin Falls, $110,627, by Atomic Energy Commission, Box 1221, Idaho Falls, for constructing flood control project No. 1, including earth fill diversion dam, diversion and connecting channels and dikes across Lost River, nine mi. west of Central Facilities Area, National Reactor Testing Station, Idaho; AT(10-1)-954.
LB 6-17. Previous report 6-3

▲STRUCTURAL STEEL—Idaho Falls, Idaho

Fourteen bids received by Atomic Energy Commission, Box 1221, Idaho Falls, for furnishing, fabricating and erecting structural steel for the power plant and pump pit, including passageway to Reactor Testing Station, Idaho; Inv. No. AT(10-1)-962. Bids opened June 13. TWO LOW: Titan Steel Corp., Salt Lake City, Utah, $99,430; Grand Junction Steel Fabricating Co., Grand Junction, Colo., $99,825. HI: Allen Steel Co., Salt Lake City, Utah, $134,890.
SP 6-17. Previous report 6-3

●STREET CONSTRUCTION—
Idaho Falls, Idaho

Bids will be opened 3 p.m., June 25, by Atomic Energy Commission, Box 1221, Idaho

Falls, for constructing Portland Ave., Central Facilities Area, National Reactor Testing Station, Idaho Falls; Inv. No. AT(10-1)-964. Plans with above office.

Work involves (a) constructing 4,300' of 32' wide type B bituminous surfaced roadway (Portland Ave.) from Quebec Ave. to Lincoln Blvd., including intersections at Quebec Ave., Main St. and Lincoln Blvd. and one wood plank railroad crossing; (b) at intersection of Portland Ave. and Lincoln Blvd., widening of 1,300' Lincoln Blvd. from 32' to 40' wide and surfacing the added width with class A roadmix. SP 6-14

★STREET RECONSTRUCTION— Idaho Falls, Idaho

Award to Pickett & Nelson, Box 755, Idaho Falls, $38,202 by Village of Ammon, Bonneville County, Idaho for reconstruction of streets in Hillview Addition.

DM 6-14. Previous report 6-5

★BITUMINOUS SURFACING— Idaho Falls, Idaho

Award to Gardner-Stone Co., Blackfoot, $55,500, by Atomic Energy Commission, Box 1221, Idaho Falls, for road surfacing program, National Reactor Testing Station, Idaho; AT (10-1)-0960.

LB 6-18. Previous report 6-3

▲AIRCRAFT WASHRACK— Mountain Home AFB, Idaho

Bids received June 17 by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for constructing aircraft washrack, including 300 sq. ft. masonry block building, paving and utilities, at Mountain Home AFB; ENG-45-164-58-70.

One bid received at June 17 bid opening, that of Morrison-Knudsen Co., Inc., Boise, $174,060. DM 6-18. Previous report 6-7

MONTANA

★SIDEWALKS, CURBS, GUTTERS— Billings, Mont.

Award to Hitz Construction Co., 2111 4th Ave. N., Billings, $3,615, by Yellowstone County Commissioners, Courthouse, Billings, for installing of sidewalks, combination curbs and gutters and driveway approaches on north side and part of south side of Lewis Ave. from 12th St. W. to 13th St. W., RSID No. 404. EE 6-18. Previous report 5-14

★ASPHALT, SEWER— Billings, Mont.

Awards to Hydrocarbon Specialties, Helena, $12,787, for purchase of 115,000 gal. RC asphalt, 2,000 gal. MC asphalt, 75,000 gal. SC asphalt, and 2,000 gal. asphalt cement; Long Construction Co., Lockwood Flats, Billings, $17,110, for 5,000 ton plantmix asphalt surface course; Holm Sutherland Co., 19 Foster Lane, Billings, by City Council, City Hall, Billings. Bids opened June 10.

EE 6-18. Previous report 5-28

WATER SYSTEM— Columbia Falls, Mont.

Bond issue of $165,000 was approved in the June 3 election at Columbia Falls to finance improvements to the municipal water system including improvements to the Cedar Creek reservoir, diversion of the creek into the city system, and replacement of existing 8" wood main from the reservoir with 16" steel mains. Consulting engineers: Morrison-Maierle, Inc., 910 Helena Ave., Helena.

RB 6-13. Previous report 3-29

SEWAGE TREATMENT SYSTEM— Great Falls, Mont.

(Estimated cost $1,600,000)

Bond election to be held in November by City of Great Falls on financing construction of mechanical type treatment plant. Studies on the project were made by Harold Hoskins & Associates, consulting engineers, 24th and River Drive, Great Falls.

DC 6-14. Previous report 1-18

★WATER TRANSMISSION LINES— Great Falls, Mont.

Awards announced by City Council, Civic Center, Great Falls, for construction of water transmission lines under Contract No. 4, involving installation of 17,900' of 24" and 7,800' of 20" cast iron pipe and appurtenant work, in Great Falls. Consulting engineers: Black & Veatch, 1500 Meadow Lake Parkway, Kansas City, Mo. AWARDS —SECTION 1: Utility Builders, Inc., Box 1154, Great Falls, $178,009. SECTION 2: Joe Fagenstrom, Black Eagle, $98,466.

SP 6-13. Previous report 5-1

STANDBY POWER INCREASE— Great Falls, Mont.

Plans and specifications will be available soon from Civil Aeronautics Administration, Procurement Branch, LA-160, 5651 W. Manchester Ave., Box 45007, Los Angeles, Calif., for increasing standby power for the air route traffic control center at Great Falls Municipal Airport, Great Falls; Proposal 4-58-1041. Includes removing existing 37.5-kva engine generator and associated equipment and crating for shipment; erecting 16'x20' type "S" steel building including concrete foundation and floor; installing new 62.5-kva engine generator in new steel building; installing 2" and 3" conduit; installing transformer pad and making two transformer installations including pad enclosure; relocating 6" water line and miscellaneous construction. SP 6-10

▲WATER DISTRIBUTION SYSTEM— Jordan, Mont.

Twelve bids ranging from a low of $77,000, by J. W. Albrecht and Ross-Powers Construction Co., 4034 S. Billings Blvd., Billings, to a high of $110,000 were submitted to City Council, Jordan, for ditching and installing a water distribution system in Jordan.

EE 6-17

★TRANSMITTER BUILDING, ROAD— Kalispell, Mont.

Award to J. G. Watts Construction Co., Route 1, Salem, Ore., $59,598, by Corps of Engineers, Seattle, for constructing transmitter building, access road, security fence, septic tank, Kalispell AFS; ENG-45-108-58-156. DM 6-18. Previous report 6-11

★STORAGE MAGAZINE— Malmstrom AFB, Mont.

Award to Sletten Construction Co., Box 1188, Great Falls, $120,998, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for ADC type ammunition storage at Malmstrom AFB; ENG-45-164-58-56.

SP 6-17. Previous report 5-29

▲SURFACING, GRADING— White Sulphur Springs, Mont.

Seven bids were opened by Bureau of Public Roads on six mi. surfacing and three mi. grading in vicinity of Meagher and Cascade county line north of White Sulphur Springs. LOW: S. Birch Inc. and S. Birch Construction Co., Great Falls, $314,649; McLaughlin Inc., Great Falls, $319,486; Union Construction Co., Missoula, $356,647. Engineer's estimate $323,733. WB 6-13

ALASKA

▲WATER SUPPLY SYSTEMS— Anchorage, Alaska

Bids were opened June 12 by Corps of Engineers, D-E Bldg., Anchorage for constructing water supply system for each of following three White Alice sites: 1—Granite Mountain on Seward Peninsula, 2—Kalakaket Creek near Galen, 3—Pedro Dome about 20 mi. north of Fairbanks; ENG-95-507-58-51. LOW BIDS: 1—Reed & Martin, Box 568, Fairbanks, $240,000; Morrison-Knudsen Co., Inc., Ancharoge, $242,000. 2—Morrison-Knudsen, $210,000; Reed & Martin, $235,000. 3—Roark Construction Co., Box 859, Palmer, $94,320; Reed & Martin, $125,000.

AL 6-14. Previous report 5-15

★SEAL COATING, AGGREGATE— Anchorage, Alaska

Award to Cheney Construction Co., Post Road, Anchorage, $22,290, by City Council, Anchorage, for furnishing and placing seal coat of asphaltic cement and cover aggregate on certain bituminous paved streets in Anchorage. SP 6-10. Previous report 6-4

★SEWER LINES— Anchorage, Alaska

Award to Mack's Excavating, Thompson Subdivision, Spenard, $21,980 ($13,979 basic plus $8,001 alt.), by City Council, City Hall, Anchorage, for excavating, installing, trench and backfill for sewer lines and appurtenances in SID No. 32, Mountain View. Bids for the same work in SID No. 35, Block 4, Chester Subdivision, Anchorage, were rejected as too high.

AL 6-10. Previous report 6-4

▲SEAL COATING— Anchorage, Alaska

Bids received June 12 by U.S. Public Health Service, Alaska Native Health Service, Sub-Area Office, Box 741, Anchorage, for seal coating streets and parking areas at Alaska Native Hospital, 3rd and Gambell, Anchorage; INL-ANC-28-58. ONLY BIDS: Cheney Construction Co., 208 Central Bldg., Seattle, Wash., $9,341; Doughty Construction Co., Box 1167, Spenard, $10,146.

AL 6-18. Previous report 6-16

★SIDEWALK, STAIRWAY— Anchorage, Alaska

Award to Doughty Construction Co., Box 1167, Spenard, $16,420, for replacing sidewalk, curb and gutter and to Sandland Construction Co., Box 193, Spenard, and Dunderi Construction Co., 2703 27th, Spenard, $3,997, for constructing stairway with 44'9" corrugated sheet aluminum canopy on 3rd Ave. from sidewalk level to proposed parking lot in Anchorage, by City Council, Anchorage. AL 6-18. Previous report 6-16

SANITARY SEWER— Anchorage, Alaska

A sewer improvement district is being established for construction of sanitary sewers throughout the major portion of Fairview Public Utility District area in Anchorage. Plans have been completed by Gustav Johnson, consulting engineer, 901 5th Ave., Anchorage. Project is pending Alaska Public Works extension as bonds for financing were authorized only under APW; a new bond election for funds would have to be held to proceed under any other arrangement. AL 6-18. Previous report 3-21

▲VORTAC FACILITY Biorka Island, Alaska

Bids were opened June 12 by Civil Aeronautics Administration Procurement Branch, 219 E. 5th, Anchorage for constructing mountain top VORTAC facility, including clearing, preparation of site, constructing antenna and support, generator building related work at Biorka Island; Proposal 5-58-76. BIDS: C & R Builders, 1619 8th N., Seattle, $212,604; Ramstad Construction Co., Box 1454, Anchorage, $250,987; Continental Constructors Inc., Anchorage, $259,018; Tongass Construction Co., Ketchikan, $282,671.

AL 6-14. Previous report 6-11

★BRIDGE, DIKE— Chitina, Alaska

Award to Williams Equipment Co., 611 16th, Fairbanks, $231,193, by Bureau of Public Roads, Federal Bldg., Juneau, for constructing Tonsina River bridge and dike, 15 mi. northwest of Chitina; Proj. DS-0851-(5). SC 6-17. Previous report 6-11

● V.O.R. FACILITY— Eielson AFB, Alaska

Bids will be opened 9 a.m., June 23, by U.S. Air Force, procurement office, Eielson AFB, for relocation of V.O.R. Facility from present location to southeast end of runway 31, Eielson Air Force Base, IFB No. 65-503-58-195. Plans with above office. $40 deposit on plans. AL 6-17

● WARM AIR INTAKES— Eielson AFB, Alaska

Bids will be opened 10:15 a.m., June 23, by U.S. Air Force, Procurement office, Eielson AFB, for modifying boiler combustion air heater and adding required heater and fan capactity to supply adequate combustion air, Eielson Air Force Base, IFB No. 65-503-58-200. Plans with above office.

AL 6-17

●PARKING AREAS—Eielson AFB, Alaska

Bids will be opened 9:30 a.m., June 23, by U.S. Air Force, procurement office, Eielson AFB, for constructing new parking areas and sidewalks in areas of seven buildings at Eielson Air Force Base, IFB 58-197. Bid bond 20%. $40 deposit. Project involves 10,600 sq. yd. asphalt cement. AL 6-17

▲STORAGE TANK CLEANING—Elmendorf AFB, Alaska

Four bids received by U.S. Air Force, Elmendorf AFB, for cleaning of bulk petroleum storage tanks at the base; Inv. No. 58-199. Bids opened June 13. LOW: Petroleum Engineering Service, 4700 Hickory Grove Road, Charlotte, N.C., $15,200. HI: Specialty Service Co., Box 4818, Spenard, $35,790. Government estimate, $30,000. AL 6-17. Previous report 5-31

▲SEAL COATING—Elmendorf AFB, Alaska

Two bids received June 13 by U.S. Air Force, Elmendorf AFB, for seal coating at Elmendorf AFB; Inv. No. 58-193. BIDS: Doughty Construction Co., Box 1167, Spenard, $113,502; Cheney Construction Co., Post Road, Anchorage, $118,927. Government estimate $170,000. AL 6-17

▲SEAPLANE FACILITIES—Hood Bay, Port Althorp, Alaska

One bid received June 16 by Director of Aeronautics, 202 Glover Bldg., Anchorage, for constructing two seaplane facilities, one at Hood Bay and one at Port Althorp. Separate bids on each project; alt. A for utilizing salvaged piling furnished by Department of Aviation; alt. B for utilizing new creosoted float logs supplied by contractor. ONLY BID: E. E. Norton, 1016 Pike St., Juneau, $12,281 (alt. A); $12,461 (alt. B). AL 6-18. Previous report 6-10

AIRPORT— Hooper Bay, Alaska

The Alaska Territorial Department of Aviation, C. F. Ricker, chief engineer, Glover Bldg., Anchorage, has invited proposals from 12 engineering companies for complete engineering for a new airport at Hooper Bay. A preliminary survey conducted by the Department of Aviation indicated that the sand dune area will accommodate a 4,000' landing strip suitable for DC-3 aircraft. Construction is scheduled to start next summer.

Requests for proposals have been sent to the following Affiliated Alaskan Engineers, 627 H St.; Thomas B. Bourne Associates, 744 14th St.; Gustav V. Johnson, 900 5th Ave.; Victor C. Rivers, Reed Bldg.; Rutledge-Johnson-Tryck, Glover Bldg.; all Anchorage. Alaska Architectural and Engineering Co., 710 3rd Ave.; Phillco Engineering Service, 531 4th; Gray & Rodgers Associates, 224 Charles; George C. Silides Engineering Associates, 1041 Gilmore; Polar Engineering Associates; all Fairbanks. Felix J. Toner, 9 Triangle Bldg., Juneau; John C. Fox, Haines. AL 6-7

●PAVING— Juneau, Alaska

Bids to be opened 11 a.m., P.S.T., July 1 by Bureau of Public Roads, 319 Federal Bldg., Juneau, for 4,000' of bituminous concrete paving on Palmer-Wasilla Highway, Alaska, Proj. F-035-1(1). Plans obtainable in room 311, Federal Bldg., Juneau. Bid guarantee 5%.

Quantities: 12,000 c.y. uncl. excavation; 11,000 c.y. borrow excavation, case 2; 5,000 ton crushed aggregate base, grading D-1; 1,600 ton hot bituminous concrete pavement; 140 ton cover aggregate, grade C, type 3 seal coat; 1,090 sq. yd. of 4" concrete sidewalks. DM 6-11

●BITUMINOUS SURFACING— Juneau, Alaska

Bids will be opened 11 a.m., July 2, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for bituminous surfacing Alaska Highway, Territory of Alaska; Proj. DF-062-1(3). Plans with 311 Federal Bldg., Juneau. Bid guarantee 5%. No charge.

Quantities: 35.038 mi. bituminous surfacing; 4,000 tons crushed aggregate base, grading; 11,600 tons aggregate; 7,000 tons bituminous curb. LB 6-13

▲PAINTING BRIDGES— Juneau, Alaska

Bids were opened June 17 by Bureau of Public Roads, Juneau for painting four bridges on Alaska Highway; Proj. DF-062-2(3). LOW BIDS: C. H. Savage, 4126 S.E. Milwaukie, Portland, $73,977; Far North Decorators and Interior Painting, Fairbanks, $88,990; Western Painters, 4208 23rd W., Seattle, Wash., $89,640. JU 6-18. Previous report 5-29

▲ROAD CONSTRUCTION— Juneau, Alaska

Bids opened June 17 by Bureau of Public Roads, 319 Federal Bldg., Juneau, for road construction at Mt. McKinley National Park, Alaska; Proj. No. NP 1-A2. LOW BIDS: M. B. Contracting Co., Lloyd Bldg., Seattle, $637,381; Green Construction Co., 321 Locust St., Des Moines, Iowa; Morrison Knudsen, Co., Inc., Box 320, Anchorage, $797,261. JU 6-18. Previous report 6-11

★PUMPING STATION REPAIRS—Ladd AFB, Alaska

Award to Pioneer Co., Box 230, Fairbanks, $173,655, by U.S. Air Force, Procurement Office, Ladd AFB, for repairing sanitary sewer pumping stations at the base; Inv. No. 58-103. LB 6-17. Previous report 5-2

★PAVING— Ladd AFB, Alaska

Award to Morrison-Knudsen Co., Inc., Box 320, Anchorage, $18,175, by Procurement Office, Ladd AFB, for installing additional paving at road intersection on the base; Inv. No. 65-500-58-97. DM 6-18. Previous report 5-14

▲DIKE, BANK PROTECTION—Mt. McKinley National Park, Alaska

Bids received June 17 by Bureau of Public Roads, Juneau, for dike and bank protection in Mt. McKinley National Park, Alaska; Proj. NP 1-CL,A3. LOW BIDS: Patti-McDonald Construction Co., Pouch 6, Anchorage, $57,917; United General Contractors, Seattle, $64,348; Green Construction Co., Securities Bldg., Seattle, $83,079. JU 6-18. Previous report 6-11

▲TELEPHONE CABLE PLANT—Spenard, Alaska

Bids were opened June 12 by Telephone Company, 13th Ave. and E St., Anchorage, for installing cable plant on telephone lines in vicinity of Fairfax Telephone Exchange office to be built in Spenard PUD area; Proj. No. T 839. BIDS: Cable Construction Co., 1512 Center St., Tacoma, $88,746; Holert & Connolly, 1845½ E. 5th, Anchorage, $163,994; City Electric of Anchorage, Box 3698 Eastchester Branch, Anchorage, $186,937. AL 6-14. Previous report 5-31

NORTHERN CALIFORNIA

▲CONSTRUCTING, WIDENING STREET—Alameda, Calif.

Only one bid received June 2 by City Council, City Hall, Alameda, for constructing and widening Willow St., south of Clinton Ave., Alameda; No. PW 5-58-3. BID: Gallagher & Burk, Inc., 344 High St., Oakland, $12,897. RM 6-14

★WIDENING STREET— Alameda, Calif.

Award to Gallagher and Burk, Inc., 344 High St., Oakland, $12,897, by City Council, City Hall, Alameda, for constructing and widening Willow St., south of Clinton Ave., Alameda; PW 5-58-3. Bids opened June 2. RM 6-21

★CONCRETE CREEK LINING—Concord, Calif.

Award to Elmer J. Freethy Co., 1432 Kearney St., El Cerrito, $203,069, by Contra Costa Board of Supervisors, Martinez, for constructing 1,700' of concrete lining, Gregory Creek, Concord area. Bids opened June 4. OTHER LOW BIDS: Ball and Simpson, 685 Delaware St., Berkeley, $203,905; John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley, $213,369. RM 6-21

★PLANTMIX SURFACING—Hayward, Calif.

Award to Lee J. Immel, 13555 San Pablo Ave., San Pablo, $32,106, by City Council, City Hall, Hayward, for resurfacing B St. and adjacent streets—1958, involving 4,544 tons plantmixed surfacing and replacing 49 water valve boxes; Proj. 1166. Bids opened June 10. OTHER LOW BIDS: Oliver De Silva, Inc., 2333 Eden Road, San Leandro, $32,609; Independent Construction Co., 741 50th Ave., Oakland, $34,449. RM 6-21. Previous report 6-7

●EARTHWORK, ROAD SURFACING, RETAINING WALLS— Lewiston, Calif.

Bids will be opened 10 a.m., July 8, by Bureau of Reclamation, Box 247, Lewiston, Calif. for earthwork, road surfacing and retaining walls for approach to Trinity River Bridge near Lewiston, Trinity County, Calif.; Spec. DC-5065. Specs with above address, or following offices: B. P. Bellport, Regional Director, Box 2511, Sacramento; Grant Bloodgood, Chief Engineer, Bldg. 53, Denver Federal Center, Denver, Colo. Bid bond 10%. Completion time: 75 days. Quantities include: 900 c.y. excavation; 1,300 c.y. compacted backfill; 1,900 c.y. embankment; 90 c.y. crushed rock or gravel blanket; 350 c.y. riprap; 200' grading; 135 c.y. crushed rock base; 800 sq. yd. bituminous surfacing; 470 c.y. concrete; 33,000 lb. reinforcement bars; 750 bbl. cement. RM 6-21

★WASTE PUMPING STATION—Manteca, Calif.

Award to Valley Engineers, Inc., Box 746, Fresno, $39,831, by City Council, City Hall, Manteca, for constructing an industrial waste pumping station and pipelines at the Eckert Frozen Food Plant on old Highway 99, Manteca. Bids opened June 2. RM 6-21

▲EXCAVATION, PLANTMIX PAVING—Martinez, Calif.

Bids received June 10 by Contra Costa County Board of Supervisors, Martinez, for Grayson Road Reconstruction and plantmix paving; Proj. 3661-55-1. LOW BIDS: Martin Brothers, Box 628, Concord, $118,697; Gallagher and Burk, Inc., 344 High St., Oakland, $124,960; Antioch Paving Co., Rt. 1, Box 640, Antioch, $129,452. RM 6-21. Previous report 5-24

★STREET IMPROVEMENTS—Modesto, Calif.

Award to Standard Materials, Box 661, Modesto, $17,169, by City Council, City Hall, Modesto, for improving 8th St., Washington to L, and G St., 14th to Burney, Modesto. RM 6-21. Previous report 6-14

●STEEL PIPE— Oakland, Calif.

Bids wil be opened 2 p.m., June 27, by East Bay Municipal Utility District, Room 104, 2130 Adeline St., Oakland, for furnishing 29,910' of cement mortar lined and coated electric welded steel pipe in 6.9", 9.05", 13.2", 20", and 24" diameters; Prop. 2549. Specs with Procurement and Materials Office, 2127 Adeline St., Oakland. RC 6-21

★JAYBIRD TUNNEL— Riverton, Calif.

Award to Frazier Davis Construction Co., 1319 Macklind Ave., St. Louis, Mo., $5,175,135, by Sacramento Municipal Utility District, 1708 59th St., Sacramento, for constructing the Jaybird Tunnel, located approximately 3 mi. north of Riverton, El Dorado County, involving a 21,000' tunnel, 14' wide and 14'3" high, horseshoe shaped, supported and lined where required and constructing access roads. First phase of Upper American River Power Project. PB 6-21. Previous report 6-7

★ROAD IMPROVEMENT, SANITARY SEWERS, TRAFFIC SIGNALS—Sacramento, Calif.

Award to J. R. Reeves, Box 1072, Sacramento, $124,441, by Sacramento County Board of Supervisors, Administration Bldg., 827 7th St., Sacramento, for widening existing road, traffic signals and sanitary sewer main on El Camino Ave., Unit No. 1, Sacramento County.

PB 6-21. Previous report 5-24

★PAVING, SIDEWALKS, SEWERS, WATER DISTRIBUTION SYSTEM—
Sacramento, Calif.

Award to A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $56,869, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for plantmixed surfacing, seal coating, concrete curbs, gutters, sidewalks, sewers and water distribution system, Baldwin Estates Subdivision, Sacramento County. Engineers: Packard, Muir and Train, Inc., 3260 J St., Sacramento. PB 6-21. Previous report 6-7

●LEVEE— **Sacramento, Calif.**

Bids will be opened 2 p.m., (DST), July 2, by Corps of Engineers, Room 305, Wright Bldg., 1209 Eighth St., Sacramento, for enlarging existing levee, surfacing levees and service roads, involving 5,000 c.y. unclassified excavation, 75,000 c.y. levee embankment, 2,600 ton crushed mineral aggregate surfacing, right bank Yolo Bypass, vicinity of Old Willow Slough, Yolo County, Calif.; CIVENG-04-167-58-51. Specs with above address. Bid bond 20%. Completion time: 60 days. RM 6-21

★STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction for which bids were opened May 28.

III-PLA-37-C,D—Grade 4-lane freeway, frontage roads, ramps, connections; plantmix surfacing and portland cement concrete on untreated base and cement treated base; four bridges; 4.6 mi., between 0.9 mi. west of Magra Overhead and 0.5 mi. west of Monte Vista, Placer County. AWARD: Fredrickson and Watson Construction Co. and Ransome Co., 873 81st Ave., Oakland, $2,617,777.

I-HUM-20-A—Grading 2-lane highway, plantmix surfacing on untreated base, 0.9 mi., between west of Essex Gulch Rd. and east of Fieldbrook Rd., Humboldt County. AWARD: Mercer, Fraser Co. and Mercer, Fraser Gas Co., 2nd and Commercial Sts., Eureka, $135,400.

X-AMA-34-D—Grading, plantmix surfacing on untreated base, 0.2 mi., Pioneer, Amador County. AWARD: Claude C. Wood Co., 686 E. Lockeford St., Lodi, $20,427.

IX-MNO-23,95-K,L,A—Plantmix surfacing on existing surfacing, 27.2 mi., various locations, between Sonora Junction and Nevada state line, Mono County. AWARD: Basich Bros. Construction Co. and N. L. Basich, Box 37, South San Gabriel, $158,899.

V-MON-119-A—Shaping shoulders, roadmix surfacing traveled way, 5.6 mi., between Rt. 10 and San Benito County line, Monterey County. AWARD: Guido O. Ferini, Box 402, Santa Maria, $46,801.

X-SJ-4-B,E—Preparing, planting 7.3 mi. between Lathrop Rd. and Mariposa Rd. near Stockton, San Joaquin County. AWARD: L. K. Nelson, 11717 S. Corrigan Ave., Downey, $26,763. PB 6-21. Previous report 5-10

▲STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Bids received June 18 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction.

IV-SF-2,68-SF—Grading, plantmix surfacing on cement treated base, concrete base, existing pavement, about 0.8 mi., freeway interchanges, ramps, connections, city streets; four bridges; widening one bridge; extending two pedestrian undercrossings; at interchange of Rts. 2 and 68, San Francisco. LOW BIDS: Guy F. Atkinson, 10 W. Orange, San Francisco, $7,462,731; Peter Kiewit Sons' Co., 345 Kieways, Arcadia, $7,663,657; Charles L. Harney, Inc., 575 Berry, San Francisco, $8,064,472.

IV-SM-2-MLBR—Plantmix surfacing on cement treated base, 0.5 mi., traffic signal system, highway lighting, widening bridge, between Silva Ave. and Chadbourne Ave., Millbrae, San Mateo County. LOW BIDS: Lowrie Paving Co., Inc., 174 San Bruno Road, South San Francisco, $115,026; L. C. Smith, Box 610, San Mateo, $116,296; Oscar C. Holmes, 927 Arguello, Redwood City, $122,220.

II-MOD-1253—Grading, plantmix surfacing on cement treated base, 5.4 mi., between Canby and 2.1 mi. east of Toms Creek, Centerville Road, Modoc County. LOW BIDS: M. W. Brown, Box 827, Redding, $278,991; Harms Bros., 5261 Stockton Blvd., Sacramento, $313,254; Granite Construction Co., Box 900, Watsonville, $349,510.

II-SIS-1089—Grading roadbed, installing drainage facilities, 2.8 mi., west side road between Callahan and Cedar Gulch, Siskiyou County. ONLY BIDS: M. W. Brown, Redding, $279,124; Granite Construction Co., Watsonville, $372,322; Oliver DeSilva, 2333 Eden Road, San Leandro, $42,871.

II-PLU-21-D F—Grading, plantmix surfacing on untreated base, two locations, 0.8 mi., (widening at one location, constructing two-lane highway at other), Cemetery Hill in East Quincy and at Delleker Overhead, Plumas County. LOW BIDS: Trinity Construction Co., Box 1642, Redding, $40,620; O. K. Mittry & Sons, 15905 S. Broadway, Gardena, $55,777; M. J. Rudd, Jr., Route 6, Box 1419-A, Modesto, $57,557.

III - PLA - WHITMORE MAINTENANCE STATION—Grade road approach and yard, drainage facilities, 4 mi. east of Baxters, Whitmore Maintenance Station, Placer County. LOW BIDS: R. A. Westbrook, Inc., and Morrison - Knudsen Co., Inc., 6431 Elvas, Sacramento, $97,891; Lee Stephens, Box 726, Stockton, $104,990; Farrel & Vestuto, Vallejo, $113,838.

II-LAS-1232—Grade two-lane highway, install drainage facilities, 9.4 mi., Feather Lake Highway, between 17.2 mi. northwest of Susanville and 0.2 mi. southeast of Pine Creek, Lassen County. LOW BIDS: Sierra Construction Co., Box 983, Merced, $140,200; M. W. Brown, Box 827, Redding, $144,221; Harms Bros., 5261 Stockton Blvd., Sacramento, $162,894.

III-SIE-25-A—Bridge and approaches, Fiddle Creek, 12.1 mi. west of Downieville, Sierra County. LOW BIDS: Holcomb & Sons, Reno, Nev., $36,908; G. S. Herrington, Box 708, Auburn, $38,898; Charles Cunningham Co., 334 S. Yosemite, Oakdale, $40,684.

IV-SON-208-A — Plantmix surfacing on traveled way and shoulders, seal coating, 2.1 mi., between Tolay Creek and Sonoma Creek, Sonoma County. LOW BIDS: A. G. Raisch Paving Co., Box 458, San Rafael, $41,887; Reichhold & Jurkovich, 1914 N St., Sacramento, $42,467; Oliver DeSilva, 2333 Eden Road, San Leandro, $42,871.

X-CAL,TUO-65,65,40,13-VAR — Plantmix surfacing over existing surfacing, 13.1 mi., various locations, Calaveras and Tuolumne counties. LOW BIDS: Beerman & Jones, Box 698, Sonora, $69,634; Claude C. Wood, Box 599, Lodi, $72,522; Huntington Bros., Box 446, Napa, $82,800. PB 6-21. Previous report 6-7

●DRILLING TEST HOLES—
Sacramento, Calif.

Bids will be opened 1:30 p.m., July 2, by State Department of Water Resources, Room 401, Public Works Bldg., Sacramento, for drilling exploration test holes at proposed Brushy Peak Tunnel site, Alameda County, Calif.; Spec. 58-17. Specs with 1730 24th St. or Box 388, Sacramento. RM 6-21

▲PAVING, SEWERS, SIDEWALKS—
Sacramento, Calif.

Bids received June 18, by Sacramento County Board of Supervisors, Administration Bldg., 827 7th St., Sacramento, for concrete curbs, gutters, sidewalks, asphaltic concrete pavement, sewers, and street lighting system, Country Club Vista Unit No. 1 Subdivision, Sacramento County. LOW BIDS: McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $23,825; A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $24,869; Brighton Sand and Gravel Co., Box 7001, Perkins Branch, Sacramento, $26,273. PB 6-21. Previous report 6-14

▲PLANTMIX SURFACING, SEWERS—
Sacramento, Calif.

Bids received June 18 by Sacramento County Board of Supervisors, Administration Bldg., 827 7th St., Sacramento, for plantmix surfacing and installing sewers in Cypress Ave. from Manzanita to Pasadena Aves. LOW BIDS: A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $49,260; Asta Construction Co., 33 N. Front St., Rio Vista, $49,962; Lentz Construction Co., 2416 Sutterville Rd., Sacramento, $52,840. PB 6-21. Previous report 6-1

▲SIDEWALKS, PAVING, SEWERS, WATER DISTRIBUTION SYSTEM—
Sacramento, Calif.

Bids received June 12 by City Council, City Hall, Sacramento, for asphaltic concrete pavement, curbs and gutter, portland concrete sidewalks, sewers, water distribution system, Squier Tract, Res. 3253. LOW BIDS: Brighton Sand and Gravel Co., Box 7001, Perkins Branch, Sacramento, $21,345; McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $21,503; Granite Construction Co., Box 900, Watsonville, $22,319. PB 6-21. Previous report 5-31

▲PAVING, SEWERS, WATER DISTRIBUTION SYSTEM— **Sacramento, Calif.**

Bids received June 12 by City Council, City Hall, Sacramento, for excavation, grading, curbs and gutters, portland concrete sidewalks, asphaltic concrete pavement, sewers, water distribution system, Golf Course Terrace Unit No. 21 Subdivision; Res. 3252. LOW BIDS: A. Teichert and Son, Inc., 1931 Stockton Blvd., $63,721; Lentz Construction Co., 2416 Sutterville Rd., $64,630; Brighton Sand and Gravel Co., Box 7001, Perkins Branch, $65,140. All of Sacramento. PB 6-21. Previous report 5-31

▲WATER PUMPING UNITS—
Sacramento, Calif.

Bids received June 12 by City Council, City Hall, Sacramento for three 40 M gal. standby pumping units at Sump No. 1, for City Water Dept., Sacramento. LOW BIDS: Waukesha Pacific Equipment Co., 1310 66th, Emeryville, $65,200; Sacramento Valley Tractor Co., 1901 Broadway, Sacramento, $73,363; Worthington Corp., Harrison, New Jersey, $74,327. PB 6-21. Previous report 5-31

●STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Additional bids to be opened 2 p.m., July 16, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction. Plans with state highway engineer, above address.

IV-SCL-68,113-SUNV,B A—Grading, plantmix surfacing on cement treated base and existing pavement, concrete paving on cement treated subgrade, 1.9 mi. of freeway with interchange, frontage roads, ramps, constructing one bridge; on Bayshore Highway at Mountain View-Alviso Road, in and near Sunnyvale, Santa Clara County.

II-SHA-28-C—Grading, plantmix surfacing on cement treated base, two-lanes and connections, 5.3 mi., between 0.2 mi. east of Hillcrest and 3 mi. west of Burney, Shasta County.

Your Inquiry Will Get Special Attention

. . . if you mention that it is in response to advertising in this publication. Advertisers value such acknowledgments highly; so does the publisher. You benefit — as a reader — in the better service such acknowledgments help make possible.

III-SAC-4-A,B—Grading, plantmix surfacing on existing pavement, cement treated base and untreated base, southbound two lanes of four-lane divided highway with speed change lanes and connecting ramps, 5.8 mi., constructing three reinforced concrete bridges, widening one bridge, between 1.8 mi. south of Cosumnes River and 0.2 mi. south of Elk Grove Rd., Sacramento County.

IV-SM-68-SM—Preparing, planting roadside areas, 2.2 mi., in San Mateo between Peninsular Ave. and 16th Ave., San Mateo County.

X-ALP-1258—Grading, roadmix surfacing, 0.3 mi., constructing reinforced concrete slab bridge, on Laramie St. between Hot Springs Rd. and State Rt. 23 in Markeeville, Alpine County.

I-HUM-1-D—Grading, plantmix surfacing on imported base material and existing surfacing, 0.2 mi., between 0.8 mi. and 1.0 mi. north of Pepperwood, Humboldt County.

III-SAC-3-B—Channelization, traffic signal system, highway lighting at Marconi Ave. overcrossing, Sacramento County.

X-CAL-1150—Grading, plantmix surfacing on cement treated base, 3.3 mi., Murphys Grade, between 3.3 mi. northeast of Altermille and Murphys, Calaveras County.

III-NEV-1203—Plantmix surfacing on untreated base over imported subbase materials 3.4 mi., on Brunswick Rd. between State Highway Rt. 17, near Town Talk and State Highway Rt. 25, Nevada County.

III-BUT-758—Repair existing highway by placing imported subbase material, plantmix surfacing on untreated base, constructing riprap, 1.6 mi., Oroville-Gradley Highway between 1.6 mi. west of State Rt. 87 and Rt. 87, Butte County.

IV-MRN-608—Plantmix surfacing on existing surfacing and base, on Sir Francis Drake Blvd. between Lagunitas School and 2.7 mi. east, Marin County.

PB 6-21. Previous report 6-14

Advertisements for bids when placed on this page will pay big dividends if you use them regularly.

★**WATER MAIN, SEWERS—** **San Bruno, Calif.**

Award to E and J Construction Co., 5420 College Ave., Oakland, $18,510, by City Council, City Hall, San Bruno, for installing 2,100′ of 62 cast iron water main, 140 water services and 650′ of 54″ reinforced concrete pipe in Cherry Ave. City Park. Bids opened May 28. OTHER LOW BIDS: A. Dale Williams, 299 Bel Mar Ave., Daly City, $18,995; L. C. Smith and Co., 225 19th Ave., San Mateo, $19,077.

RM 6-21. Previous report 5-24

★**GRADING, BITUMINOUS SURFACING—** **San Francisco, Calif.**

Award to Fredrickson Bros., 1259 65th St., Emeryville, $271,690, by Bureau of Public Roads, 5th and Mission Sts., San Francisco, for grading, base course, bituminous surfacing on four existing access roads, 8.059 mi., near Travis Air Force Base; Proj. Calif. A-AD 32(2), Access Road to Nike Sites, Solano County. Bids opened June 3. OTHER LOW BIDS: Parish Bros. Inc. and Harms Bros., Box 6, Benicia, $339,888; Martin Brothers, Inc., 2525 Concord, Concord, $390,968. RM 6-21. Previous report 5-24

●**REINFORCED BRIDGE—** **San Francisco, Calif.**

Bids will be opened 3 p.m., June 26, by Bureau of Public Roads, 102 Old Mint Bldg., 5th and Mission Sts., San Francisco, for constructing East Creek Bridge (75′ long) on Parsnip Creek Road, Modoc National Forest, Lassen County, Calif.; Proj. Calif. F.D.R. 39N06-B. Specs. with above office. Completion time: 90 days. Quantities include 160 c.y. structure excavation; 131 c.y. class A concrete; 27,000 lb. reinforcement steel; 159′ steel bridge railing. RM 6-21

★**CURBS, SIDEWALKS, PAVING—** **San Jose, Calif.**

Award to Leo Piazza, Downer Ave., San Jose, $10,646, by Santa Clara County Board of Supervisors, N. First and Rosa Sts., San Jose, for curbs, gutters, sidewalks and paving at the J. M. McKinnon School on Moorpark Ave., Santa Clara County. Bids opened May 12. RM 6-21. Previous report 3-22

●**PAVING, SEWERS—** **Stockton, Calif.**

Bids will be opened 5 p.m., June 30, by City Council, City Hall, Stockton, for constructing sidewalks, paving, curbs, gutters, wading pool, parking area, storm and sanitary facilities in Victor Anderson Park, Stockton. Specs with city clerk or city engineer, above address. Certified, cashier's check or bid bond 10%. Completion time: 45 days. RC-6-21

★**CONCRETE BRIDGE—** **Stockton, Calif.**

Award to A. G. Harrisberger, 1631 28th St., Sacramento, $61,166, by City Council, City Hall, Stockton, for a four-lane, concrete trestle bridge over Mormon Channel at San Joaquin St., Stockton. Low bid was declared irregular. RC 6-21. Previous report 6-14

▲**COARSE GRAVEL PROTECTION—** **Tracy, Calif.**

Bids received June 10 by Bureau of Reclamation, Winters, for 5,355 tons coarse gravel protection at Delta-Mendota Intake Canal, Central Valley Project, near Tracy Pumping Plant, Contra Costa and Alameda counties; Spec. No. 200C-388. LOW BIDS: H. Sykes, Box 998, Patterson, $12,377; E. G. Alves, Box 950, Pittsburg, $16,858; Wright Bros., Rt. 1, Box 1080, Gridley, $17,605.

RM 6-21. Previous report 6-7

●**SANITARY SEWERS—** **Truckee, Calif.**
(Estimated cost $35,000)

Bids will be opened 7:30 p.m., July 1, by Truckee Sanitary District, Justice Court, Truckee, for constructing sanitary sewers, involving 6,276′ vitrified clay pipe, 4″ to 6″, Gateway Park Subdivision, Truckee. Specs with J. J. McGlade, district clerk, Administrator's Office, Tahoe Forest Hospital, Truckee, or Russel G. Ludwig, Consulting Engineer, 2240 Parkway Dr., El Monte. $10 deposit. Bid bond 10%. RM 6-21

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., JUNE 25
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 A.M. on June 25, 1958. The proposals will be publicly opened and read immediately thereafter. YOUR ATTENTION IS DIRECTED TO THE 9:00 A.M. HOUR SET FOR THE OPENING OF BIDS IN ROOM 151 OF THE STATE HIGHWAY DEPARTMENT BUILDING.

1. **IN 90-9(5)498U1 & IN 90-9(7)508U1**—Grade, aggregate surfacing, plant-mix surfacing, seal coating, and drain 11.594 miles on the Crow Agency-Hardin Road in Big Horn County, involving about 1,156,486 cu. yds. excavation; 40 cu. yds. riprap; 716 cu. yds. gravel backfill; 993,519 mi. yds. overhaul; 336,381 tons crushed aggregate; 307,700 tons uncrushed aggregate; 30,010 M gals. watering; 5,203 units rolling; 1,185 tons cutback asphalt; 1,134 lin. ft. corrugated metal pipe; 764 lin. ft. structural plate pipe; 3,874 lin. ft. reinforced concrete pipe; 512 lin. ft. relay pipe culverts; 177 each metal fence panels; 160 hours watering; 22 each stockguard; 8,111 rods wire fence; all lump sum weigh station; 742 lin. ft. jiggle bars; 13.5 stations obliteration of old roadway; 4,540 tons asphalt cement; 82,449 tons plant mix; 293.4 sq. yds. reinforced concrete pavement; 1,814 sq. ft. galvanized metal-bin-type retaining wall; 9,370.5 lin. ft. steel beam guard rail; 32 lin. ft. steel beam bridge rail; 24,527 lbs. reinforcing steel; 286.8 cu. yds. concrete; 170 cu. yds. structure excavation; 1,058 lin. ft. driving treated timber piles; 1,150 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles; 390 lin. ft. integral concrete curb & gutter; 10,293 lin. ft. median concrete curb; 200 sq. yds. concrete sidewalk, 2 each median inlet cover; and other items. Project to be completed in 400 calender days.

2. **DF 98(9)**—Aggregate surfacing, plant-mix surfacing, and seal coating 10.962 miles on the Whitefish-Stryker Road in Flathead County, involving about 8,560 cu. yds. excavation; 195,762 tons crushed aggregate; 3,873 M gals. watering; 960 units rolling; 241.20 tons cutback asphalt; 201.03 tons emulsified asphalt; 1,515.04 tons asphalt cement; 27,534 tons plant mix; and 63 hours watering. Project to be completed in 70 calendar days.

3. **DF 164(11)**—Plant-mix surfacing and seal coating 11.995 miles on the Philipsburg-Anaconda Road in Deer Lodge County, involving about all lump sum furnish and maintain water plant; 2,629 tons crushed aggregate; 88 units rolling; 95.92 tons cutback asphalt; 250.25 tons emulsified asphalt; 1,875.75 tons asphalt cement; 34,150 tons plant mix; 79 hours watering; and 8,609.5 lin. ft. steel beam guard rail. Project to be completed in 130 calendar days.

4. **F 193(9) & F 273(10)**—Grade, aggregate surfacing, plant-mix surfacing, seal coating, and drain 7.842 miles on the Culbertson-Plentywood and the Sidney-Culbertson Roads in Roosevelt County, involving about 531,963 cu. yds. excavation; 445 cu. yds. gravel backfill; 115,541 mi. yds. overhaul; 18,100 tons crushed aggregate; 102,157 cu. yds. crushed aggregate; 10,162 M gals. watering; 1,604 units rolling; 206.46 tons cutback asphalt; 171.94 tons emulsified asphalt; 1,234.11 tons asphalt cement; 3,469 lin. ft. corrugated metal pipe; 214 lin. ft. struct. plate pipe culverts; 54 hours watering; 22,457 tons plant mix; 1,637.6 lin. ft. remove concrete curb; 64 sq. yds. remove concrete sidewalk; 6,112.5 lin. ft. integral concrete curb & gutter; 4 each standard drop inlets; all lump sum remove existing structures; and other items. Project to be completed in 250 calendar days.

5. **DF 284(9)**—The construction of one 143.0′ concrete bridge and one 101.5′ concrete bridge and aggregate surfacing, and the bituminous surface treatment of 0.657 miles on the Broadview-Lavina Road in Golden Valley County, involving about 3,252 cu. yds. excavation; 277 cu. yds. riprap; 301 mi. yds. overhaul; 7,463 tons crushed aggregate; 143 M gals. watering; 41 units rolling; 32.47 tons cutback asphalt; 8 hours watering; all lump sum remove existing structures and maintain traffic; 487 lin. ft. steel bridge rail; 50,624 lbs. reinforcing steel; 422.8 cu. yds. concrete; 555 cu. yds. structure excavation; 1,015 lin. ft. driving treated timber piles; 1,060 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles; and 1,320 lin. ft. precast prestressed con-

crete beam. Project to be completed by September 15, 1959.

6. DF 333(19)—Aggregate surfacing, plant-mix surfacing, and seal coating 14.943 miles on the Grass Range-Malta Road in Phillips County, involving about 2,059.90 tons asphalt cement; 221,901 tons crushed aggregate; 4,381 M gals. watering; 1,022 units rolling; 331.21 tons cutback asphalt; 276.22 tons emulsified asphalt; 37,448 tons plant mix; and 86 hours watering. Project to be completed in 150 calendar days.

7. DF 333(20)—Grade and drain 12.936 miles on the Grass Range-Malta Road in Fergus County, involving about 1,199,229 cu. yds. excavation; 584 cu. yds. gravel backfill; 94,678 mi. yds. overhaul; 17,949 M gals. watering; 2,393 units rolling; 5,054 lin. ft. corrugated metal pipe; 480 lin. ft. structural plate pipe; 100 lin. ft. relay pipe culverts; and other items. Project to be completed in 300 calendar days.

8. DS 115(4)—Aggregate surfacing, plant-mix surfacing, and seal coating 9.190 miles on the Hilger-Winifred-Big Sandy Road in Chouteau County, involving about 17,111 tons plant mix; 940.98 tons asphalt cement; 56,955 tons crushed aggregate; 1,438 M gals. watering; 373 units rolling; 178.17 tons cutback asphalt; 148.23 tons emulsified asphalt; 46 hours watering; and 60 hours use of Motor grader. Project to be completed in 150 calendar days.

9. DS 176(4)—Plant-mix surfacing and seal coating 7.429 miles in the Molt-Billings Road in Stillwater and Yellowstone counties, involving about all lump sum furnish and maintain water plant; 2,422 tons crushed aggregate; 20 M gals. watering; 60 units rolling; 193.43 tons cutback asphalt; 801.57 tons asphalt cement; 41 hours watering; 74 hours use of Motor grader; and 14,571 tons plant mix. Project to be completed in 70 calendar days.

10. DS 204(2)—Plant-mix surfacing and seal coating 8.465 miles on the Echo Lake-East and West Road in Flathead County, involving about all lump sum furnishing and maintaining water plant; 1,553 tons crushed aggregate; 44 units rolling; 55.51 tons cutback asphalt; 141.35 tons emulsified asphalt; 932.34 tons asphalt cement; 16,955 tons plant mix; and 44 hours watering. Project to be completed in 100 calendar days.

11. S-SG 272(1)—Grade, aggregate surfacing, bituminous surface treatment, drain, and construction of 180.0' steel and concrete overpass on 1.730 miles on the northwest of Frenchtown Wye-Westerly road in Missoula County, involving about 187,686 cu. yds. excavation; 40 cu. yds. riprap; 221 cu. yds. gravel backfill; 25,372 mi. yds. overhaul; 21,986 tons crushed aggregate; 26,283 tons uncrushed aggregate; 3,753 M gals. watering; 594 units rolling; 44.26 tons cutback asphalt; 44.67 tons emulsified asphalt; 120 lin. ft. corrugated metal pipe; 214 lin. ft. structural plate pipe; 998 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 23 hours watering; 3,841 lin. ft. steel beam guard rail; 155 cu. yds. structural excavation; 367.92 lin. ft. steel beam bridge rail; 35,796 lbs. reinforcing steel; 293.2 cu. yds. concrete; all lump sum structural steel; 1,146 lin. ft. driving treated timber piles; 1,210 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles; 210 lin. ft. prebored holes for piles; other items. Project to be completed in 230 calendar days.

12. S 289(6) & S 346(3)—The construction of one 110.0' steel and concrete bridge and one 153.0' steel and concrete bridge on the Red Lodge-Columbus Road in Carbon County and Stillwater County, involving about 430 cu. yds. excavation; 81,433 lbs. reinforcing steel; 470 cu. yds. structural excavation; 525.04 lin. ft. steel bridge rail; 497.9 cu. yds. concrete; and 600 lin. ft. precast prestressed concrete beam. Project to be completed by July 31, 1959.

The above listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashier's check, cash, postal money order, bank money order, or bid bond in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in this proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, Helena, Montana. Plans and specifications for all Federal-aid projects are also on file and may be examined in the offices of the Bureau of Public Roads, Missoula.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer
6196—6-14, 21

PAVING

BIDS CLOSE 11 A.M., P.S.T., JULY 1

Juneau, Alaska

NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10. June 6, 1958, Juneau, Alaska. Sealed bids in single copy, for furnishing all labor, equipment and materials and performing all work for Project F-035-1(1), Palmer-Wasilla Highway, Third Judicial Division, Territory of Alaska, described herein will be received until 11:00 a.m., PST, July 1, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of 4000 feet of bituminous concrete paving. Principal items of work are unclassified excavation—12,000 cubic yards; borrow excavation, case 2—11,000 cubic yards; crushed aggregate base, grading D-1—5,000 tons; hot bituminous concrete pavement—1,600 tons; cover aggregate, grade C, type 3 seal coat—140 tons; 4 inches concrete sidewalk—1,090 square yards. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6191—6-14, 21

DEPOT GARAGE

BIDS CLOSE 11 A.M., P.S.T., JUNE 24

Sitka, Alaska

NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10, June 9, 1958, Juneau, Alaska. Sealed bids, in single copy, for furnishing all labor, equipment, and materials and performing all work for Project S-102 (58), additions and renovation, Sitka Depot Garage, Sitka, Territory of Alaska, will be received until 11:00 a.m., P.S.T., June 24, 1958 in Room 319, Federal Building, Juneau, Alaska, and then publicly opened. **Information regarding bidding material, bid guarantee, and bonds.** Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads at Juneau, Alaska. Plans and specifications may be examined by prospective bidders at the following addresses: Bureau of Public Roads Division offices, Anchorage, Juneau and Fairbanks; offices of the Associated General Contractors of America, 220 W. Harrison St., Seattle, Washington; Multnomah Hotel, Portland, Oregon; N. 4935 Trent St., Spokane 6, Washington and 306 Central Building, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6197—6-14, 21

GRADING

BIDS CLOSE 10 A.M., JUNE 30

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 16, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 30, 1958, for furnishing the material and performing the work for constructing a portion of the Gumboot Road, Oregon Forest Development Road Project Wallowa-Whitman S439-A in the Wallowa-Whitman National Forest, Wallowa County, involving approximately 25,000 cu. yds. of Unclassified Excavation per mile and furnishing and installing of culvert pipe. The plans do not show the terminus of the project and the bid schedule does not list proposed quantities at this time, as the exact amount of funds available for this project will not be known until June 20. Plan holders will be advised of the terminus of the project and furnished with a bid schedule showing bid quantities on or before June 23. Plans, specifications, and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6204—6-21

CANAL ENLARGEMENT

BIDS CLOSE 10 A.M., JULY 29

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specification No. DC-5068) will be received at Ephrata, Washington, until July 29, 1958, for furnishing labor and materials for Potholes East Canal Enlargement, Station 172+00 to Station 251+00, and Station 510+00 to Station 770+00, Columbia Basin Project, Washington. Location near Othello, Washington. Principal items are 1,811,000 cu. yds. excavation; 170,000 cu. yds. earth lining; 120 cu. yds. concrete in structures; 38 mbm timber in structures; and other work. Completion time part 135 days and part 500 days. For particulars, address Bureau of Reclamation, P.O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6205—6-21

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., JULY 1

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, July 1, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District

Engineers of the Department of Highways where they may be inspected.

Federal funds have been allocated for items Nos. 1 to 10 inclusive.

The improvements for which bids will be received follow:

1. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Paving with Cement Concrete and Asphaltic Concrete on 3.685 miles of Primary State Highways Nos. 3 and 18 in Whitman County, STEPTOE TO CASHUP, FAP Nos. DF-037-2(6) and DS-0289(5), involving about 642,780 cubic yards of Common Excavation, 111,125 tons of Crushed Stone Filler, Crushed Surfacing and Crushed Cover Stone, 80 cubic yards of Prime Coat Aggregate, 331 cubic yards of Riprap, 193 tons of Asphalt Cement, 1,670 tons of Asphaltic Concrete, 46,025 square yards of Cement Concrete Pavement, 215 linear feet of Cement Concrete Curb, 255 cubic yards of Concrete, 66,910 pounds of Steel Reinforcing Bars, 2,336 linear feet of Concrete Pipe, 182 linear feet of Metal Pipe, 268 linear feet of Metal Pipe-Arch, 6,258 linear feet of Beam Guard Rail, 24 Guide Posts and other items.
2. Clearing, Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment, Paving with Asphaltic Concrete and Installing Illumination on 2.179 miles of Primary State Highway No. 12 in Pacific County, JOHNSON'S LANDING NORTH, FAP Nos. DF-004-1(6) and DF-003-1(8), involving about 27 acres of Clearing, 230,080 cubic yards of Common Excavation, 86,180 tons of Crushed Surfacing and Ballast, 100 cubic yards of Riprap, 875 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 102 tons of Asphalt Cement, 5,910 tons of Asphaltic Concrete, 150 linear feet of Precast Traffic Curb, 79 cubic yards of Concrete, 10,925 pounds of Steel Reinforcing Bars, 2,775 linear feet of Concrete Pipe, 448 linear feet of Metal Pipe, 3,925 linear feet of Beam Guard Rail, 77 Guide Posts, a lump sum bid for Illumination System and other items.
3. Draining, Grading, Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment and Paving with Asphaltic Concrete on 5.347 miles of Primary State Highway No. 11 in Adams County, HEDRICK-COLEMAN ROAD TO HATTON COULEE, FAP No. DF-033-2(7), involving about 235,980 cubic yards of Common Excavation, 10,830 cubic yards of Solid Rock Excavation, 63,560 tons of Crushed Surfacing, Crushed Cover Stone and Crushed Screenings, 620 cubic yards of Prime Coat Aggregate, 1,400 cubic yards of Riprap, 314 tons of Asphalt Cement, 13,415 tons of Asphaltic Concrete, 5,840 barrels of Portland Cement, 25,390 tons of Cement Treated Base, 540 linear feet of Concrete Pipe, 3,112 linear feet of Metal Pipe, 100 linear feet of Structural Plate Pipe-Arch and other items.
4. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment, Paving with Asphaltic Concrete and Constructing a Reinforced Concrete Slap Bridge on 5.870 miles of Secondary State Highway No. 3-A in Yakima County, PARKER TO WAPATO, FAP No. DF-048-1(3), involving about 16,305 cubic yards of Common Excavation and Borrow, 46,740 tons of Crushed Surfacing, Ballast, Crushed Cover Stone and Crushed Screenings, 450 cubic yards of Prime Coat Aggregate, 285 tons of Asphalt Cement, 14,410 tons of Asphaltic Concrete, 273 linear feet of Concrete Pipe, 74 cubic yards of Concrete, 11,500 pounds of Steel Reinforcing Bars, 569 linear feet of Beam Guard Rail and other items.
5. Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Constructing a Reinforced Concrete Slab Bridge on 0.681 mile of a Snohomish County Road, THOMLE BRIDGE AND APPROACHES, FAS No. S-0320(3), involving about 21,715 cubic yards of Common Excavation and Borrow, 4,700 cubic yards of Selected Roadway Borrow, 1,500 cubic yards of Crushed Surfacing, 200 tons of Riprap, 1,430 tons of Asphaltic Concrete, 45 linear feet of Concrete Pipe, 630 cubic yards of Concrete, 177,000 pounds of Steel Reinforcing Bars, 490 linear feet of Aluminum Bridge Railing, 1,100 linear feet of Treated Timber Piling, 2,640 linear feet of Concrete Piling and other items.
6. Paving with Bituminous Plant Mix on 7.230 miles of Jefferson County Roads, QUILCENE-CENTER ROAD, ET AL, FAS Nos. DS-0497(6), S-0215(1) and S-0496(2), involving about 13,935 tons of Bituminous Plant Mix and 4,950 linear feet of Asphaltic Concrete Curb.
7. Surfacing and Constructing Bituminous Surface Treatment on 17.240 miles of Whitman County Roads, PULLMAN-BUSBY ROAD, ET AL, FAS Nos. DS-0669(2), DS-0667(1), DS-0658(2) and S-1154(2), involving about 16,065 cubic yards of Crushed Surfacing and Crushed Cover Stone, 466 tons of Asphalt Cement and other items.
8. Surfacing and Paving with Bituminous Plant Mix on 4.070 miles of a Kitsap County Road, BUCKLIN HILL ROAD TO PSH NO. 21, FAS No. DS-1268(1), involving about 1,060 cubic yards of Crushed Surfacing, 12 tons of Asphalt Cement and 5,460 tons of Bituminous Plant Mix.
9. Surfacing and Constructing Bituminous Surface Treatment on 6.00 miles of a Klickitat County Road, BLOCKHOUSE-CANYON CREEK, FAS No. S-0398(3), involving about 6,000 cubic yards of Crushed Surfacing and Crushed Cover Stone, 220 tons of Asphalt Cement and other items.
10. Surfacing and Constructing Bituminous Road Mix on 1.449 miles of a Columbia County Road, NORTH TOUCHET-FOURTH STREET, FAS No. DS-0457(1), involving about 2,420 cubic yards of Crushed Surfacing and Mineral Aggregate, 100 tons of Asphalt Cement and other items.

E. A. COWELL, Chairman
W. A. BUGGE, Director of Highways

6200—6-14, 21

REINFORCED CONCRETE BRIDGES
BIDS CLOSE 10 A.M., JUNE 27
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 16, 1958. SEALED BIDS will be received at the office of the

When You Want Bids —

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Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 27, 1958, for furnishing the material and performing the work for constructing three reinforced concrete bridges 55 feet, 150 feet and 186 feet in length, Oregon Timber Access Road Project BLM 68-E, 21-8-1A and 21-8-11A, Smith River Road and related roads, Bureau of Land Management-Coos Bay District, Douglas County, Oregon, involving 10,700 cu. yds. Excavation; 552 cu. yds. Concrete; 113,100 lbs. Reinforcement Steel; 382 lin. ft. Steel Bridge Railing, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6202—6-21

BRIDGES
BIDS CLOSE 10 A.M., JUNE 27
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 16, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 27, 1958, for furnishing the material and performing the work for constructing two bridges, 110 feet and 130 feet in length, and approach grading, Oregon Timber Access Road Project BLM 89-A and 90-A, Whitehorse Creek Road and Snow Creek Road, Bureau of Land Management-Medford District, Douglas County, Oregon, involving 13,050 cu. yds. Excavation; 317 cu. yds. Class A concrete; 61,800 lbs. Reinforcement Steel, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6203—6-21

BITUMINOUS SURFACING
BIDS CLOSE 11 A.M., JULY 2
Juneau, Alaska
NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10, Date: June 10, 1958, Juneau, Alaska. Sealed bids in single copy, for furnishing all labor, equipment and materials and performing all work for Project DF-062-1(3), Alaska Highway, Third Judicial Division, Territory of Alaska, described herein will be received until 11:00 A.M., PST, July 2, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of 35.038 miles of bituminous surface—treated. Principal items of work are crushed aggregate base, grading D-1—4,000 tons; aggregate, designation AT-35—11,600 tons; bituminous curb—7,000 tons. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6201—6-21, 28

GRADING
BIDS CLOSE 10 A.M., JUNE 23
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 9, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 23, 1958, for furnishing the material and performing the work for constructing 3.096 miles grading, Oregon Timber Access Road Project BLM 30-A, Congdon Creek Road, Bureau of Land Management—Eugene District, Lane County, Oregon, involving 20 acres Clearing and Grubbing; 40,800 cu. yds. Excavation; 1,376 lin. ft. Culvert Pipe; 152 lin. ft. Structural-Plate Pipe-Arches, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6190—6-14

CONCRETE STRUCTURE
BIDS CLOSE 10 A.M., P.S.T., JULY 8
Cook, Washington
NOTICE TO CONTRACTORS

U.S. Department of the Interior, Bureau of Commercial Fisheries, Fish and Wildlife Service, The Interior Bldg., 1001 N.E. Lloyd Blvd., P.O. Box 3737, Portland 8, Oregon. Telephone BEImont 4-3361, Ext. 246. Sealed bids will be received in this office until 10:00 A.M., P.S.T., July 8, 1958, and then publicly opened, for the construction of a concrete structure for screening water at the U.S. Fish Cultural Station, Willard, Washington. Station is located 6 miles north of Cook, Washington, on the old Evergreen Highway. Plans and specifications may be obtained at the above address. Samuel J. Hutchinson, Regional Director.
6206—6-18, 24

REINFORCED CONCRETE BRIDGE
BIDS CLOSE 2 P.M., P.S.T., JUNE 25
Snoqualmie National Forest, Washington
NOTICE TO CONTRACTORS

Sealed bids for construction of Foss River Bridge (reinforced concrete) on the Snoqualmie National Forest, King Co., Wash., will be received until 2:00 p.m., PST, June 25, 1958, by the Regional Supply Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from the Supervisor, Snoqualmie National Forest, 905 Second Ave. Bldg., Seattle, Wash., or from this office.
6189—6-7

REINFORCED CONCRETE BRIDGE
BIDS CLOSE 3 P.M., P.S.T., JUNE 25
Snoqualmie National Forest, Washington
NOTICE TO CONTRACTORS

Sealed bids for construction of West Fork White River Bridge (reinforced concrete) on the Snoqualmie National Forest, Pierce Co., Wash., will be received until 3:00, PST, June 25, 1958, by the Regional Supply Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from the Supervisor, Snoqualmie National Forest, 905 Second Ave. Bldg., Seattle, Wash., or from this office.
6188—6-7

ROAD CONSTRUCTION
BIDS CLOSE 2 P.M., P.S.T., JUNE 25
Okanogan, Washington
NOTICE TO CONTRACTORS

Sealed bids for construction of approx. 4.98 miles of Meyers Creek Road #397 approx. 20 miles NE of Tonasket, Okanogan National Forest, Washington, will be received until 2:00 p.m. PST, June 25, 1958, by the Regional Supply Officer, P. O. Box 4137, 729 NE Oregon St., Portland, Oregon. Bids may be secured from him or the Supervisor, Okanogan National Forest, Post Office Bldg., Okanogan, Wash.
6186—6-6

PAVING
BIDS CLOSE 10 A.M., JUNE 24
Glacier County, Montana
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, NATIONAL PARK SERVICE, June 10, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 24, 1958, for furnishing the material and performing the work for constructing 12.575 miles bituminous paving, Glacier National Park Project 3-A5,B4 and 13-A4, Many Glacier Road and Approach Glacier County, Montana, involving 8,500 cu. yds. Excavation; 4,400 cu. yds. Crush... Aggregate Base; 12.575 miles Reconditioning of roadbed; 20,000 gals. Asphalt, tack, ... 20,000 tons Plant Mixture; 275,000 gals. A... phalt Cement, 120-150; 200 cu. yds. Dry... sioned Masonry (Isolated Barrier Stone... 1,840 lin. ft. Concrete Curb and Gutte... 255 sq. yds. Concrete Sidewalk, and other small items of work. The attention of prospective bidders is directed to the special clause "United States-Flag Vessel Provisions" included in the Special Provisions for this project. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6194—6-14

GRADING, BRIDGES
BIDS CLOSE 10 A.M., JUNE 25
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 11, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 25, 1958, for furnishing the material and performing the work for constructing 17.144 miles grading and two reinforced concrete bridges totaling 222 feet, Oregon Timber Access Road Project BLM 10-A, Nestucca River Road, Bureau of Land Management—Salem District, Tillamook and Yamhill Counties, Oregon, involving 30 Acres Clearing and Grubbing; 631,000 Cu. Yds. Excavation; 345 Cu. Yds. Concrete; 60,200 Lbs. Reinforcement Steel; 464 Lin. Ft. Steel Bridge Railing; 6,800 Lin. Ft. Culvert Pipe; 150 Lin. Ft. Structural-plate Pipe, and other small items of work. Plans, Specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6193—6-14

EARTHWORK, STRUCTURES
BIDS CLOSE 10 A.M., P.S.T., JULY 17
Camp White, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5064) will be received at Camp White, Oregon until 10 a.m., Pacific Standard Time, July 17, 1958, for furnishing labor and materials for earthwork and structures for South Fork Collection Canal, Station 291+10.3 to Station 459+28.1, and Deadwood Creek Siphon for Daley Creek Collection Canal, Talent Division, Oregon, Rogue River Basin Project. Location east of Medford, Oregon. Principal items are 68,000 cu. yds. excavation; 300 cu. yds. concrete in structures; 2,500 lin. ft. concrete pipe, 36- to 49-inch; and other work. Completion time 470 days. For particulars, address Bureau of Reclamation, P. O. Box 386, Camp White, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6192—6-14

GRADING
BIDS CLOSE 10 A.M., JUNE 27
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, June 13, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon, mail address P. O. Box 3900, Portland, Oregon, until 10 a.m. on June 27, 1958, for furnishing the material and performing the work for constructing 12.495 miles grading, Oregon Timber Access Road Project BLM 69-B, Burnt Mountain Road, Bureau of Land Management-Coos Bay District, Coos County, Oregon, involving 154 acres Clearing and Grubbing, 688,346 cu. yds. Excavation; 13,563 sta. yds. Overhaul; 9,800 lin. ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 760 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.
6199—6-14

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Magazine of West Coast Architecture
JULY 1958
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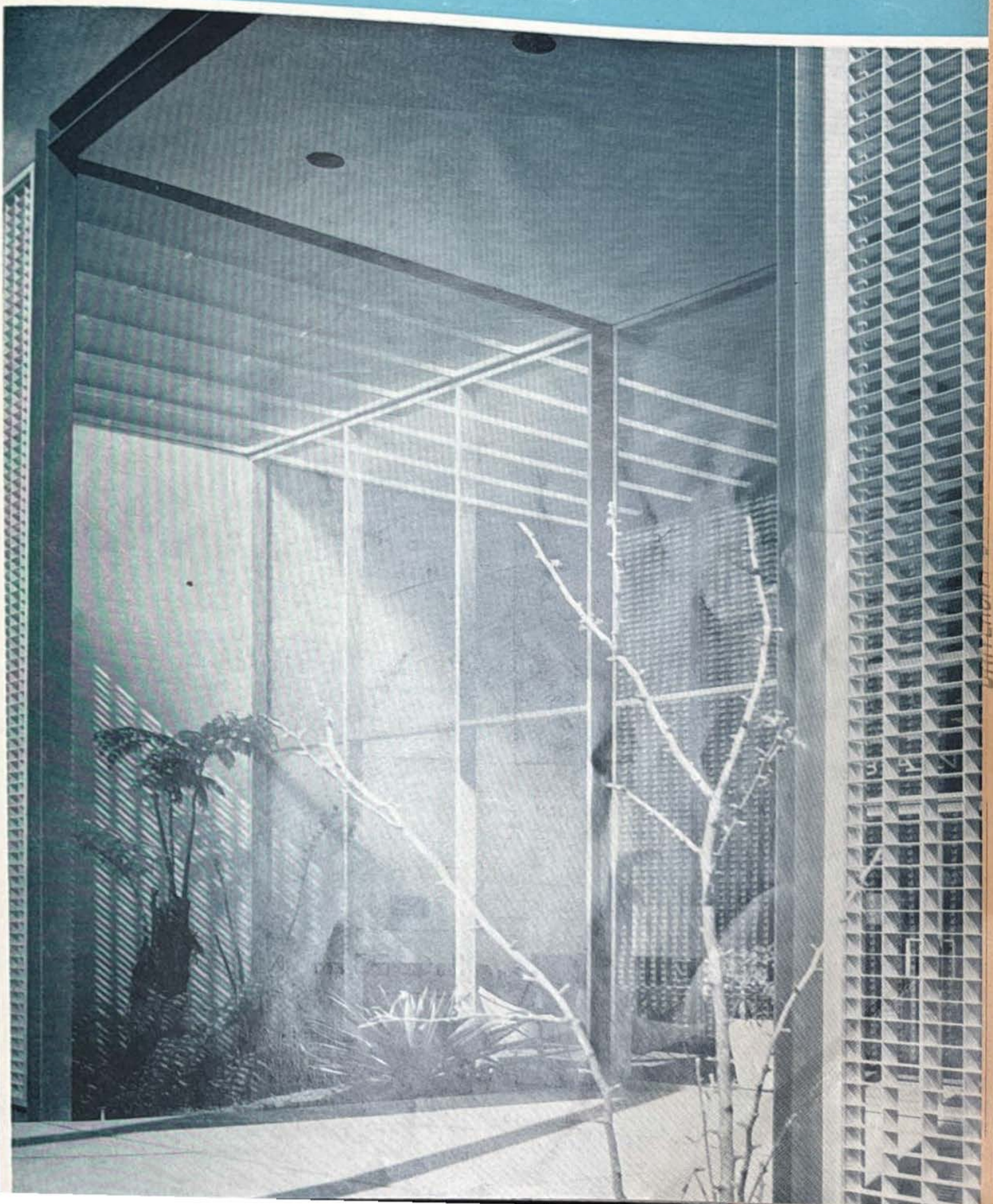

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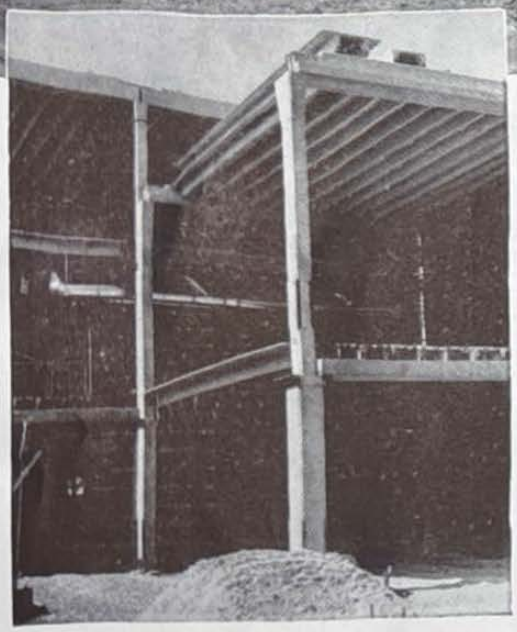

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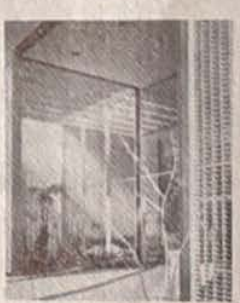


THE COVER

South Bay Bank, Manhattan Beach, Calif. Craig Ellwood, Designer; Marvin Rand photo.

BUILDING PERMITS

Six-month total well above 1957

Building permit volume for the five western states totals $1,297,705,031 for the first six months, topping last year by a good $62½ million. The pickup in construction activity is fairly widespread. Biggest increase is in Oregon, up $34 million. California and Washington are up $14½ million each and Idaho, $1 million. Only the dollar volume in Montana, down $1¾ million, is running behind last year.

A look at the figures for the 10 key building permit agencies in the PA&B territory shows most of them staying well ahead of 1957 at mid-year. Los Angeles reports a $26 million increase, San Francisco, $7 million; Sacramento County, $4½ million; King County, $6¾ million; Seattle, $10 million; Portland, $32½ million; Multnomah County, $¾ million; Boise, $106,069. Los Angeles County dropped $51½ million; Great Falls, $¾ million. State-by-state tabulations:

	Jan.-June 1958	Jan.-June 1957
Calif.	$1,029,100,875	$1,014,674,729
Ore.	93,905,435	59,803,247
Wash.	150,442,556	135,772,981
Mont.	11,609,757	13,381,720
Idaho	12,646,408	11,495,279
Total	$1,297,705,031	$1,235,136,956

ANALYSIS OF TYPICAL AREAS — JUNE

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	71	$ 1,197,225	8	$ 114,100	8	$838,040
King County	549	6,126,555	69	736,120	8	393,645
Seattle	427	3,657,962	169	2,071,280	—	—
Tacoma	103	455,225	45	619,005	—	—
Los Angeles County	1681	13,019,998	284	2,923,950	14	411,600
Orange County	183	2,145,025	14	677,500	7	138,000
Sacramento County	752	7,002,680	72	1,041,824	9	237,181

Building Permit Totals for 116 Western Agencies for June

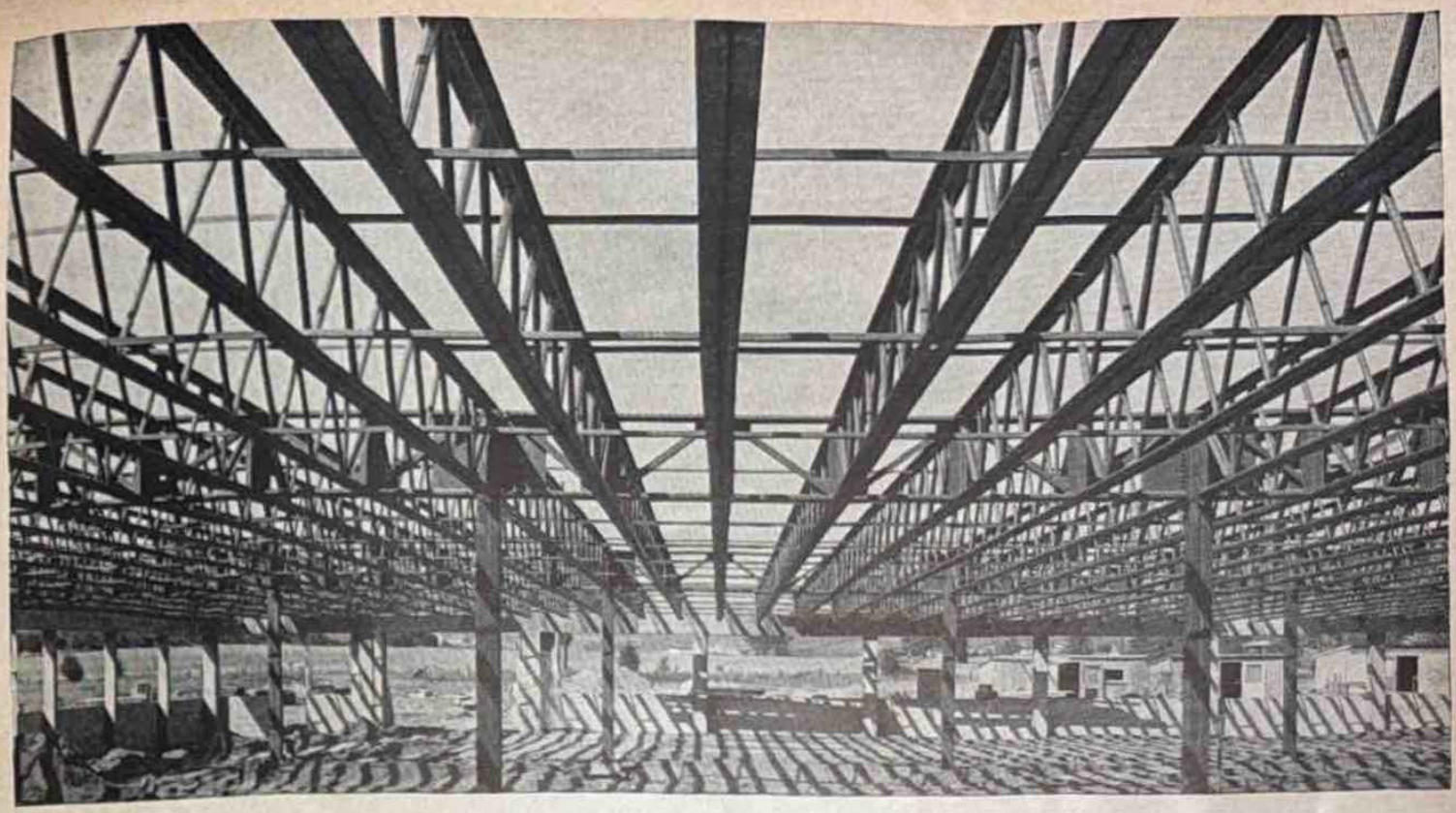
CALIFORNIA	June 1958	May 1958	June 1957
Alameda County	$ 2,335,900	$ 1,480,350	$ 3,976,200
Anaheim	2,967,507	3,399,211	2,841,700
Bakersfield	541,880	556,085	365,618
Burbank	801,972	760,927	1,229,820
Contra Costa County	2,702,807	3,422,102	2,462,832
Fresno	1,344,689	2,594,941	1,479,088
Fullerton	1,079,759	3,522,441	1,403,931
Glendale	2,126,916	2,252,490	1,346,350
Inglewood	1,838,357	1,820,256	2,474,628
Long Beach	3,280,845	6,021,350	2,902,270
Los Angeles	52,433,125	64,256,539	49,346,194
Los Angeles County	17,409,421	19,575,558	24,775,672
Oakland	3,275,755	2,874,378	4,623,660
Ontario	314,147	405,527	449,577
Orange County	3,489,245	3,769,026	3,318,852
Palo Alto	654,533	1,353,588	775,380
Pasadena	2,347,096	1,995,034	1,614,588
Pomona	1,230,843	1,889,068	1,975,487
Richmond	730,769	993,366	716,347
Riverside	1,323,456	2,642,293	904,602
Sacramento	2,430,610	7,067,799	1,588,884
Sacramento County	8,600,962	7,583,807	7,588,095
San Bernardino	1,999,977	4,026,302	2,329,135
San Bernardino County	6,100,131	5,341,430	6,144,921
San Diego	14,322,547	15,470,459	10,198,376
San Diego County	7,196,200	5,818,800	5,333,300
San Francisco	10,758,030	5,696,780	4,547,392
San Jose	6,457,476	7,797,129	4,222,050
San Mateo	550,399	1,461,678	581,389
San Mateo County	2,612,502	1,954,164	1,398,567
Santa Ana	3,784,977	3,145,577	1,595,201
Santa Monica	1,363,721	1,283,769	1,564,789
Stockton	1,204,073	1,024,575	651,101
Sunnyvale	7,511,490	966,160	1,653,155
Torrance	1,169,717	899,159	684,377
West Covina	694,588	1,515,101	546,613
TOTAL	$178,986,422	$196,637,219	$159,610,141

OREGON	June 1958	May 1958	June 1957
Albany	$ 40,600	$ 167,100	$ 100,900
Astoria	8,352	49,188	43,860
Baker	56,390	118,550	154,595
Bend	70,744	92,098	109,991
Coos Bay	87,887	24,010	16,445
Corvallis	2,189,506	230,670	256,791
Eugene	1,531,943	937,297	901,595
Grants Pass	33,200	129,255	99,695
Gresham	38,300	252,400	3,500
Hillsboro	154,025	46,377	67,825
Klamath Falls	194,490	188,561	144,656
La Grande	21,126	17,335	29,639
Lane County	841,013	1,283,239	715,533
Medford	518,023	287,160	250,700
Multnomah County	4,082,610	2,721,095	2,048,530
North Bend	34,030	34,580	72,230
Oregon City	34,124	5,780	56,545
Pendleton	80,777	426,200	77,135
Portland	6,774,665	7,916,495	4,559,630
Roseburg	104,575	135,886	44,530
Salem	476,646	323,670	250,274
Springfield	76,344	81,970	17,965
The Dalles	160,949	155,051	54,600
TOTAL	$ 17,610,318	$ 15,623,967	$ 10,077,164

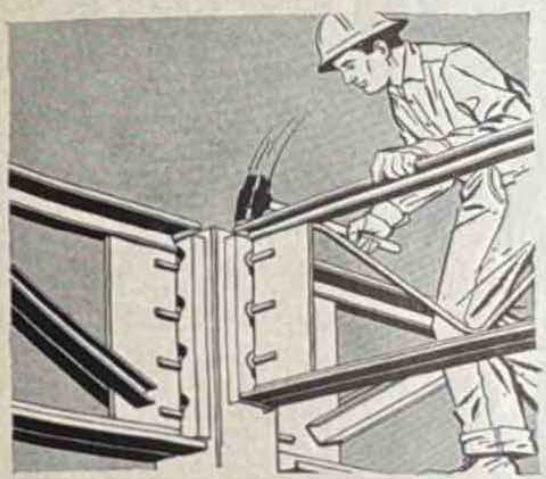
WASHINGTON	June 1958	May 1958	June 1957
Aberdeen	$ 51,126	$ 71,371	$ 91,636
Anacortes	201,675	73,695	48,770
Auburn	62,400	140,200	106,500
Bellingham	193,652	239,483	438,854
Bremerton	209,255	171,000	214,185
Centralia	32,839	68,295	49,507
Chehalis	27,263	40,266	123,081
Clarkston	29,190	13,324	66,696
Ellensburg	47,766	23,204	18,708
Ephrata	18,925	22,818	79,567
Everett	177,397	601,759	405,704
Kelso	121,600	109,000	56,100
Kennewick	60,680	156,580	118,985
King County	7,298,470	9,070,290	5,423,830
Kirkland	150,100	80,600	14,400
Longview	694,816	304,716	224,948
Moses Lake	129,420	13,410	209,852
Olympia	177,610	330,307	361,379
Pasco	394,670	172,725	179,928
Pierce County	1,794,040	2,257,687	1,124,950
Port Angeles	30,075	51,650	61,250
Puyallup	198,375	61,200	185,825
Ritzville	nil	33,600	nil
Seattle	5,953,462	8,756,062	6,807,941
Shelton	72,300	17,600	18,300
Spokane	1,635,191	3,533,915	1,423,022
Spokane County	1,183,678	2,513,045	1,274,813
Sumner	22,380	110,318	387,600
Tacoma	1,434,214	1,376,858	1,284,725
Vancouver	419,557	388,236	501,156
Walla Walla	456,018	164,780	83,295
Wenatchee	116,334	148,929	162,213
Yakima	401,878	798,284	272,864
TOTAL	$ 23,796,356	$ 31,915,187	$ 21,809,557

MONTANA	June 1958	May 1958	June 1957
Billings	$ 168,100	$ 382,300	$ 552,400
Bozeman	39,500	201,600	28,875
Butte	190,490	215,400	331,725
Glasgow	54,250	199,500	306,300
Glendive	138,900	39,770	39,600
Great Falls	654,837	1,464,426	649,223
Helena	241,015	241,120	213,030
Kalispell	339,400	42,180	98,350
Lewistown	7,800	76,900	19,500
Livingston	105,283	27,175	41,355
Miles City	56,260	119,153	57,000
Missoula	48,050	186,400	17,500
TOTAL	$ 2,043,885	$ 3,195,824	$ 2,354,658

IDAHO	June 1958	May 1958	June 1957
Boise	$ 632,619	$ 287,974	$ 571,317
Caldwell	88,113	79,000	169,555
Coeur d'Alene	32,600	46,200	37,920
Idaho Falls	699,945	626,390	1,002,600
Jerome	25,200	24,143	9,925
Lewiston	185,225	414,933	88,170
Nampa	119,080	225,787	34,515
Payette	49,100	22,450	18,300
Pocatello	431,368	233,644	168,312
Sandpoint	16,300	18,100	50,200
St. Maries	3,200	1,200	2,650
Twin Falls	208,200	104,295	180,300
TOTAL	$ 2,490,950	$ 2,084,116	$ 2,333,964
GRAND TOTAL	$224,927,931	$249,456,313	$196,185,684



In Beaverton, Oregon, 108,000 square feet of steel framing was erected in 19 days...



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Recently, the company reordered steel twice for additions totaling 28,800 square feet. By duplicating plans, steel could be delivered more promptly, and completion time reduced.

Building Design—Tektronix, Inc., Mel Lofton, designer
Structural Engineer—I. A. Cooper
Contractor—W. E. McChord

V-LOK design manual available

MACOMBER

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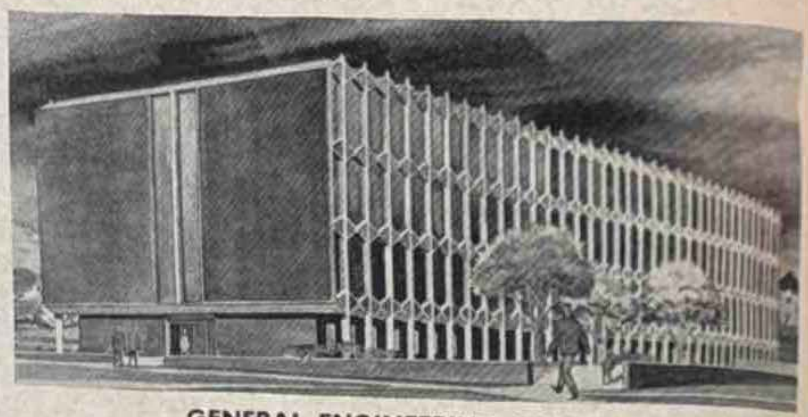
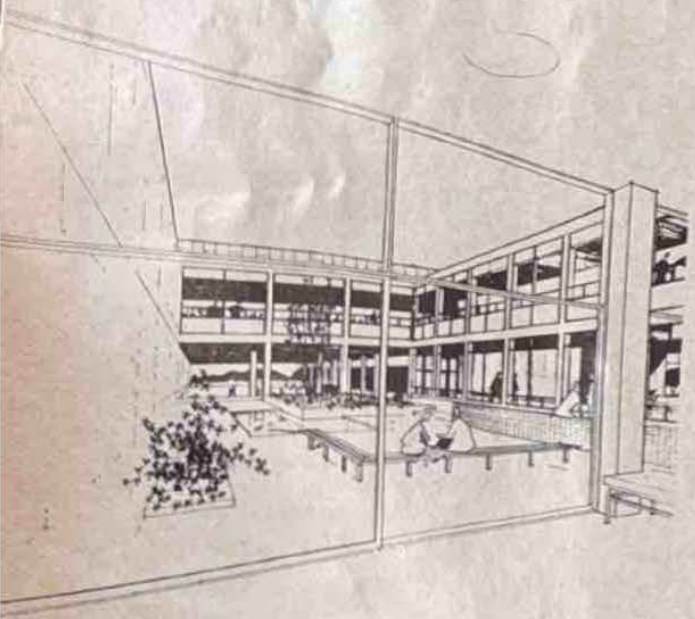
ALL-YEAR RESORT HOTEL

to be built on Mammoth Mountain in California's High Sierras has been planned with particular reference to family recreation. It will consist of 70 rooms—35 doubles and 35 split-level chalet suites with accommodations for four—and dormitories to house 40. Wood building's basic design will provide easy access to public areas and maximum exposure to spectacular views. Beams forming A-shape of central core will be anchored in steel reinforced foundations faced with native stone. Architect: Theodore T. Boutmy.



GENERAL ENGINEERING BUILDING

on University of Washington campus in Seattle will attempt to harmonize contemporary and Gothic architectural styles through use of unusual window design. Four-story steel and concrete structure, to cost $970,000, will have cast stone and brick exterior. Architects-engineers: Harmon, Pray & Detrich.



STUDENT UNION ADDITION

at University of Idaho in Moscow, as seen in sketch from lobby, shows enclosed court with covered skating rink at one end and lounge. With two stories and basement, poured concrete and metal wall building will contain 60,000 sq. ft. Total cost, including furnishings, is estimated at $1.8 million. Architects: Dropping, Kelley & Finch; associate architects: Wayland & Cline.

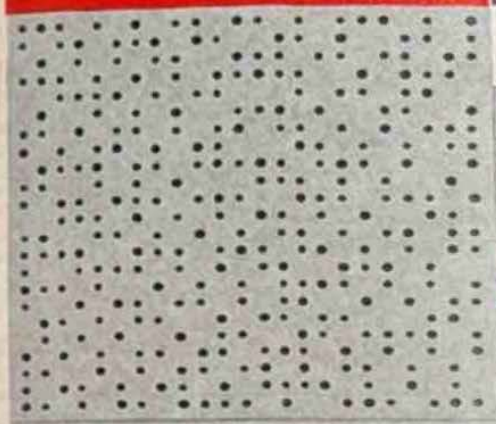
LUXURY APARTMENT HOUSE

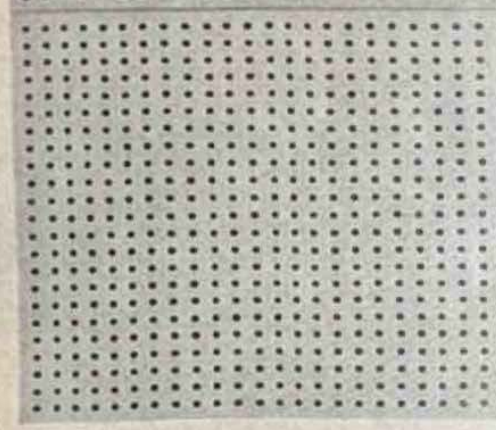
facing Balboa Park in San Diego will have 30 units and penthouse, its glass frontage spreading over 210 ft. Some features: central patio and heated swimming pool; roof garden; radiant heat with individual room controls; subterranean garage for two cars per apartment. Architect: Henry H. Hester.

FIRST HILTON INN

will be located one-half mile from main terminal building at San Francisco International Airport. Covered passageways will connect 300 guest rooms and circular central building housing restaurants. Exteriors will combine wood, glass and cement plaster. Landscaped patio will have two swimming pools. Cost of construction and furnishings: about $2.5 million. Architect: William B. Tabler.

2 SOUND ACHIEVEMENTS





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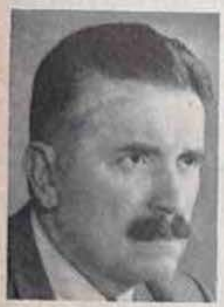

GEORGE VERNON RUSSELL, Los Angeles

Design

Wright elected AIA 2nd vice president

• Regional status for California approved

Convention-goers were returning from the annual meeting of the American Institute of Architects, which wound up July 11 in Cleveland, as PA&B went to press and the consensus seemed to be that the whole affair was somewhat uneventful. But the West Coast had a bigger stake than usual in the 1958 sessions, with Henry L. Wright of Los Angeles winning the post of second vice president and California winning approval as a region in the AIA structure—not to mention the fellowships and design award winners (PA&B for June).

In his victory, Wright defeated two other candidates: Austin W. Mather of Bridgeport, Conn., and Herbert C. Milkey of Atlanta. Also elected: John N. Richards, Toledo, president; Philip Will Jr., Chicago, first vice president; Edward L. Wilson, Fort Worth, secretary; and Raymond S. Kastendieck, Gary, Inc., treasurer.

WRIGHT

With the establishment of California as an independent unit, Hawaii will become affiliated with the Northwest states, including Alaska, while Nevada will join the Western Mountain District. Procedure of handling the regional status issue—Florida also got the nod—brought sharp criticism from some delegates whose areas were involved.

The convention in general drew little fire, but the controversial extension of the East Front of the U.S. Capitol caused the hottest debate. When it was all over, the AIA went on record reaffirming its previous stand of opposition to the proposed move.

The program itself was far from stimulating. Most rewarding perhaps was Philadelphia architect Vincent Kling's talk, "Are Architects Becoming Technicians?" Dr. Margaret Mead in her address, "The Anthropologist Looks at Architecture," managed to needle the profession. And keynoter William Tabler, New York's hotel architect, made newspapers across the country with his lambasting of the nation's "Chaotic Building Codes." (For his complete address, see p. 10.)

The Gold Medal, highest honor bestowed by the AIA, went to John Wellborn Root of Chicago. Merle Armitage of Yucca Valley, Calif., graphic arts designer, received a new award, an Industrial Arts Medal. Others:

Fine Arts Medal to Viktor Schreckengost of Cleveland, sculptor and ceramist.

Craftsmanship Medal to Francois Lorin of Chartes, who designed and executed the stained glass window given to the French cathedral by American architects through the institute several years ago.

Allied Professional Medal (new award) for achievement in the design professions related to architecture to Frederic Severud of New York, structural engineer.

Citation to an Organization to United States Steel Corp. in recognition of its sponsorship of the "Chicago Dynamic" program.

Edward C. Kemper Award to Edmund R. Purves, AIA executive director.

The 1959 convention will be held in New Orleans.

ALUMINUM EMBLEM

presented during AIA convention to six Belgian architects who won $25,000 R. S. Reynolds Memorial Award for design of Transportation Pavilion at Brussels World Fair is work of Jose de Rivera (left). Starting with rigid rod of high-purity aluminum, ¾-in. in diameter, sculptor used vise, hammer and file to shape rod in abstract form. Finished piece was anodized, then rubbed and polished.

San Francisco adopts first housing code

San Francisco has taken a major step toward a higher standard of living in its 270,000 houses, flats and apartments when the Board of Supervisors adopted the city's first housing code, a 60-page document which has been 11 years in preparation. It replaces the state law under which the city has been setting minimum standards for housing.

Originally the code required two stairways leading to the ground from any floor of more than 12 ft. in height, a stipulation opposed by both the Chamber of Commerce and the AIA. A compromise requirement will permit two rooms and a bath to be built on an upper floor with only one access.

Women's role expounded at Los Angeles sessions

Representatives of the Association of Women in Architecture, meeting in Los Angeles June 30-July 2, were told that they must toot their own horn; and they did just that at the national convention, during which photographs, renderings and models of the work of members were displayed at the Building Center.

Speaking at the final dinner session, Rita Lawrence, founder of the firm named Architectural Pottery which creates ceramic ideas in plant containers, declared: "Women's prime attributes of greater sensitivity, understanding and emphasis upon the human element is of inestimable value in a men's world of competitiveness and aggression. We must avoid the warfare of an atomic age so that we may enter a new era in which the releasing of women's attributes will become vital to the development of a humanistic society.

"Greater emphasis will be placed upon such population problems as housing, disease and population control, and social planning. The changing solutions to these increasing problems may well be found by women, who constanly need to be reminded of their area of contribution."

THE BUILDING MONTH: BRIEFS

● Problems of government, city planning, finanace, public transportation, water supply and recreation in western cities and their suburbs will be discussed at a two-day conference to be held in Berkeley's Claremont Hotel July 24-25. Governmental representatives and civic leaders from California, Oregon, Washington and Arizona are expected to attend. Conference chairman: Harold S. Shefelman, Seattle attorney and chairman of the Washington State Tax Advisory Council.

● Ultimate development of 4 sq. mi. of land surrounding Los Angeles Memorial Coliseum under a $100 million long-term master plan has been approved by the City Planning Commission. Proposal provides parking for 450 buses and 32,000 cars, with pedestrian traffic passing through tunnels.

● A ruling that a house design becomes public property just as soon as it has been recorded will be appealed in the San Francisco Court of Appeals. The precedent-shattering verdict, which presumably would make all architectural plans public property, was handed down last May by Marin Superior Court Judge Thomas F. Keating. Albert B. Carr of Mill Valley filed suit two years ago against Marin county contractor David Paul, charging that Paul had copied his house plans drawn by San Francisco architect Ernest Manfred Smith.

● In the first such move by any large municipality, Cleveland has approved plastic pipe for street-to-house water service lines and has amended its building code accordingly.

● The free world's largest and most modern facility for the manufacture of long-range missiles and space vehicles is now in operation north of San Diego. The $40 million plant for Convair-Astronautics was built by McNeil Construction Co. of Los Angeles on a 252-acre site on Highway 395.

● Emerson Goble, managing editor of Architectural Record since 1941, has been named editor, succeeding the late John Knox Shear.

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Chaotic building codes

by WILLIAM B. TABLER, AIA

AS WE BEGAN the second century of the American Institute of Architects, buildings illustrate what we can't do rather than what we can do. If ever a problem begged for action by the AIA, it is the chaotic state of building codes and building regulations in most U. S. cities today. Practically every city in America has its own code governing building design and materials, and the codes vary enormously — and unpredictably — from city to city. To compound the confusion, labor unions have working rules, rigidly enforced, which are frequently irrational and nearly always frustrating to builders and architects.

Now rules in themselves are not bad. Public health and safety obviously require that some curbs be imposed on builders. But we have created such an unholy mess of regulations and have mixed so much antiquated nonsense in with the good, that our building efficiency has been seriously impaired. Unless we can make our building rules more uniform —and uniformly sensible—American construction is never going to realize its full potential. I am convinced that in many parts of the U.S., construction costs as much as one-third more than it should, mainly because our building codes are antiquated and anachronistic.

Stranger than Fiction: Consider these peculiarities in union regulations and big-city codes that I have encountered in designing hotels:

The preferred location for a hotel ballroom is usually on the second floor. But in Hartford, Conn., the exit requirements of the building code make the roof about the only feasible place for the ballroom. In Dallas the ballroom cannot be placed above the sixth floor; in San Francisco it must go on the ground floor; and in New York it is almost impossible to put it anywhere but underground. (New York's ballroom rule is somewhat academic, for under the present building codes and zoning laws you simply could not build a profitable convention hotel in New York, and not one has gone up in the last 26 years.)

Plumbing regulations across the country are really weird. New York is still in the "brass age." You cannot use copper pipe with ordinary soldered fittings for water piping in New York City. You can use iron pipe, for iron was the age before brass. As for plastic pipe, in most cities the word has not even entered the building lexicon yet.

Or consider drum traps for bathtubs—i.e., the oversized catch basins used in place of the more common P-trap. In Boston, New York, Washington, D. C., and Los Angeles they are prohibited. But in Dallas, Denver and hundreds of other cities, drum traps are still required, or have been until recently. Added cost of drum traps to the house owner: about $50 per bathroom.

The Pittsburgh plumbing code requires about 400% more vent piping in bathrooms than is specified by the National Plumbing Code. You can see that they like plenty of iron in Pittsburgh.

Incidentally, although I design hotels I often have a tough time getting a hotel room at the desk. But thanks to the old-fashioned, easily punctured lead-bends that some plumbing codes require be put on toilet bowls, I always manage to get a room. What I do is go around to the back of the front desk to find out what rooms are out of service because the lead-bends are leaking. The toilet bowl may be sitting in the bathtub, but I can brush my teeth and have a bed for the night. This room reservation system has not failed me once in 12 years. Throw away your hotel guide and use a plumbing code.

Doorway and room-size requirements are wonderfully inconsistent, too. My wife is from Massachusetts and I tease her about the fact that people must be pretty broad-hipped up there. Exit units on buildings in Massachusetts have to be 24 in. wide if the buildings have public assembly rooms. This compares with a mere 20 in. in Pittsburgh. On the other hand, you could also argue that people must be thin in Massachusetts, for they require only 6 sq. ft. of assembly room space under the Massachusetts code as against the 15 sq. ft. per person required in Jacksonville, Fla.

Suprisingly, in Texas, where men are supposed to grow so tall, ceilings need to be only 8 ft. high with portions dropped to 7 ft.; in Puerto Rico, by contrast, the minimum ceiling height is 9 ft.

The Massachusetts Department of Public Safety required that we provide 136 ft. of swing-door egress from the lobby-area public rooms of the Boston Statler Hilton, which had a maximum occupancy of 2,863. By comparison, the Empire State Building, with 22,000 tenants, has a swing-door egress of only about 31 ft.

Stairway requirements are also peculiar. Because of hotel fires, codes generally prohibit transoms into bedrooms on the theory that a fire in the corridors gets air and oxygen through the transoms. Yet today in fire-tower stairs, which are reached only by opening a door to the outside, air and oxygen are poured onto the fire each time the door is opened. Further, some cities which require fire-tower stairs in new construction still allow open interior stairs to exist, though these inside stairs are obviously fire avenues. Perhaps most of New England is right, for there you can have a rope at the window to shinny down. Why worry about stairways?

Obviously, satisfying all these peculiar code requirements takes a tremendous toll of time and efficiency. Let me cite just one example. The plans of the Statler Center in Los Angeles had to conform to 21 different city, county, and state codes, and more than 200 appeals for modification had to be made. And Los Angeles and California are, relatively speaking, progressive. Try to build a hotel—or any other big building—in cities or states where there are no appeal provisions.

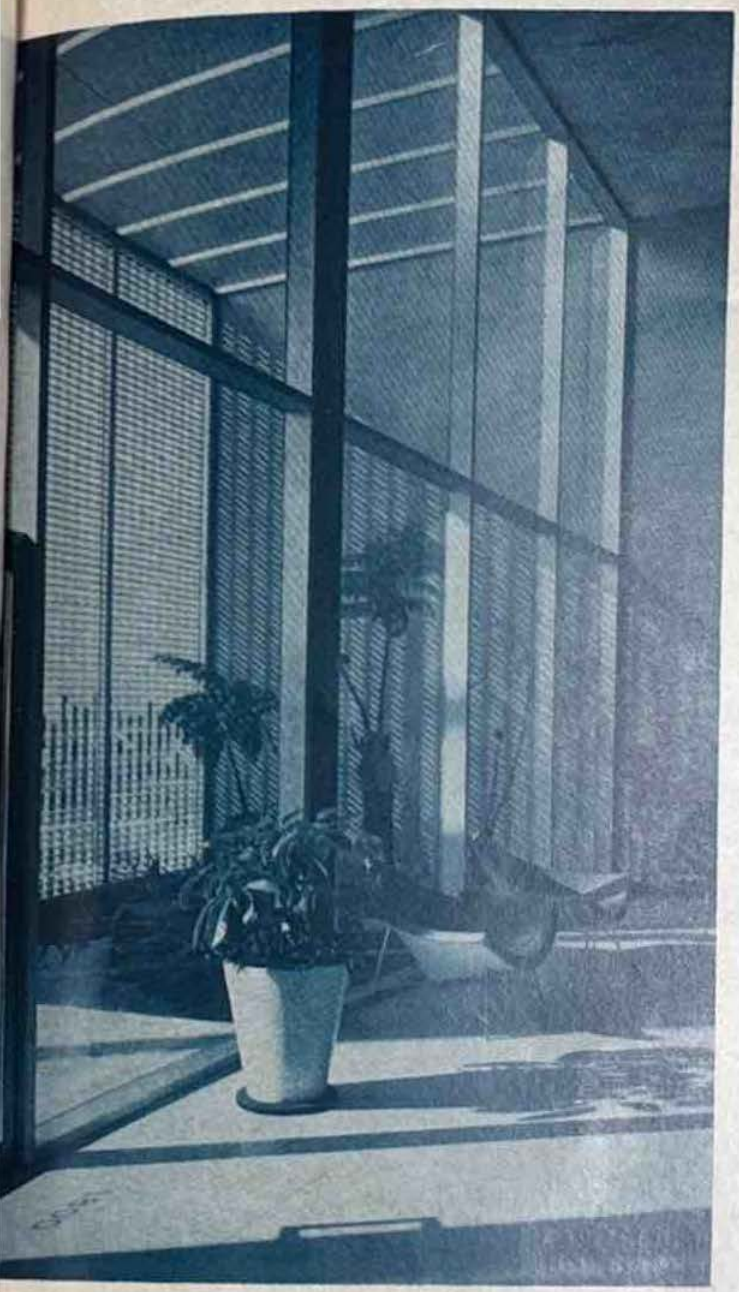
Union-Made Snarl: For sheer irrationality and induced inefficiency, of course, the rules of many construction trade unions are even worse than the provisions embedded in our building codes. It is virtually impossible to install sheet metal in New York, for example, unless it was fabricated by New York sheet metal workers. It is likewise taboo to install electrical fixtures that were not wired by New York electrical workers.

For buildings in Pittsburgh, manufacturers of electrical equipment, such as fans, have to remove the equipment's motors at the factory, ship them separately to Pittsburgh where there are reinstalled by the electrical workers and then realigned by the mechanical workers.

The jurisdictional labor situation, I am told, is improving, but if so, it must be improving awfully slowly. In Dallas, when we were building the Statler Hilton in the summer of 1955, the plasterers claimed that they should do the painters' spackling on the ceiling slabs. After the plasterers walked off the job a couple of times, the National Joint Board for Settlement of

Continued on p. 25

An address delivered by the New York architect before the AIA convention in Cleveland earlier this month.



An elegant statement of structure

South Bay Bank
Manhattan Beach, California

CRAIG ELLWOOD
Designer

JERROLD E. LOMAX
Associate

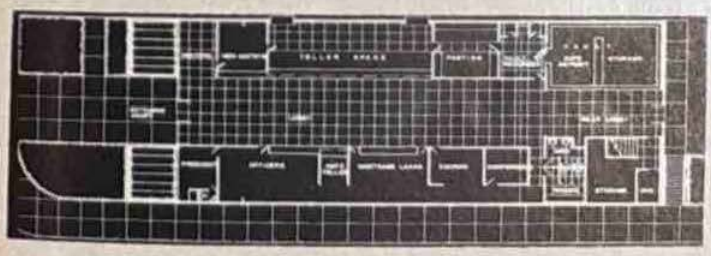
NORMAN N. ROSEN
Consulting Architect

ALBYN & CHARLES MACKINTOSH
Structural Engineers

JACK MILLER
Mechanical Engineer

JOCELYN DOMELA & WARREN WALTZ
Landscape Architects

GATTMANN & MITCHELL
General Contractors



EXPOSED STEEL COLUMNS, fascia and aluminum grillwork are blue; steel truss of rigid frame is orange; background colors are neutral grays and whites. Accents of blue, orange and citron used throughout building are repeated in some furnishings.

Marvin Rand photos

SOUTH BAY BANK

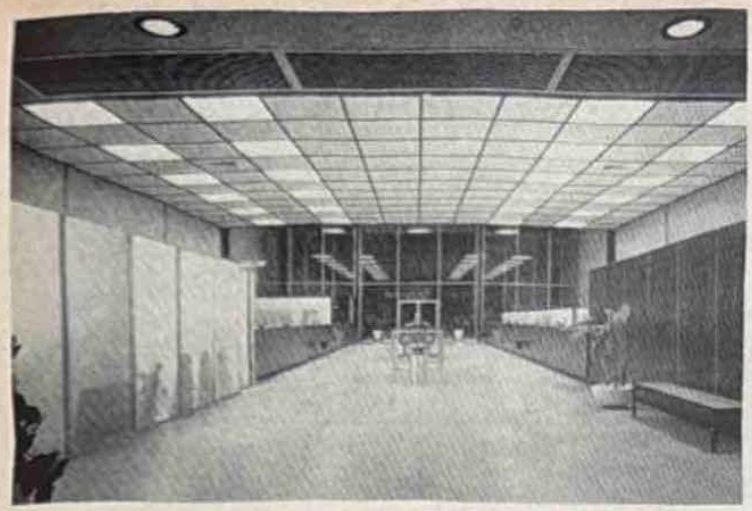
A BUILDING that would help to sell the bank since it is a new institution; that would at the same time suggest integrity; and that would make a genuine aesthetic contribution to the community: these were the main objectives spelled out by the client. The highly satisfactory solution has been expressed through the use of materials—exposed steel, aluminum and concrete block—and through the standard in-line type plan of arranging and apportioning space.

The 70x300-ft. lot is a level excavated corner, with a slope from 4½ to 12 ft. within the building area, bordering the south property line and necessitating a retaining wall. To achieve the desired clear spans, the structure is a modular steel frame of inverted tapered girders spanning 50 ft. and 8-in. columns on 16½-ft. centers. A rigid frame, required for seismic forces at the open face of the building, is placed on the module, 16½ ft. from the glass line. Constructed of 20-in. I-beams and a parallel chord type steel truss 3 ft. 4 in. in height, its open triangular sections are filled with tempered hardboard.

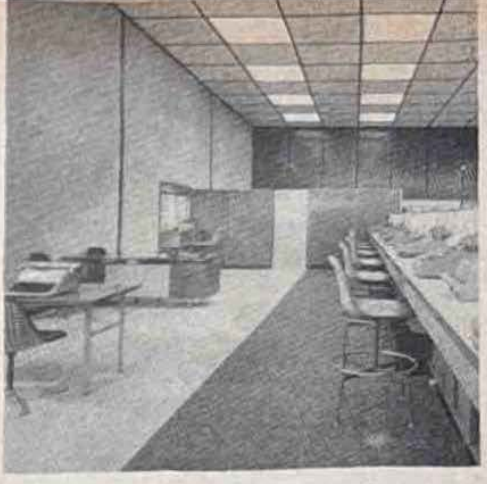
Since the structure faces west, it was desired to filter early afternoon sunlight. The concrete block walls extend 12 ft. 8 in. beyond the glass walls of the facade; and within the lightweight steel framework at the outer ends, each side of center, are two 16x20-ft. aluminum grills. Draperies (not yet installed when the building was photographed) are required to obscure the interior to the public after banking hours. Thus the grills are intended only to control early afte noon sun, allowing a laciness in d sign which produces effective shado patterns.

Between grills and glass are cour of specimen planting. The north cou is adjacent to the public waiting are the south court to the presiden private office. Further sun protectio without sacrificing light, is provid with canopies of heat absorbing tra lucent wireglass over each court. T glass and grill combination has duced heat gains by 67% and c sequently air conditioning requi ments by eight tons.

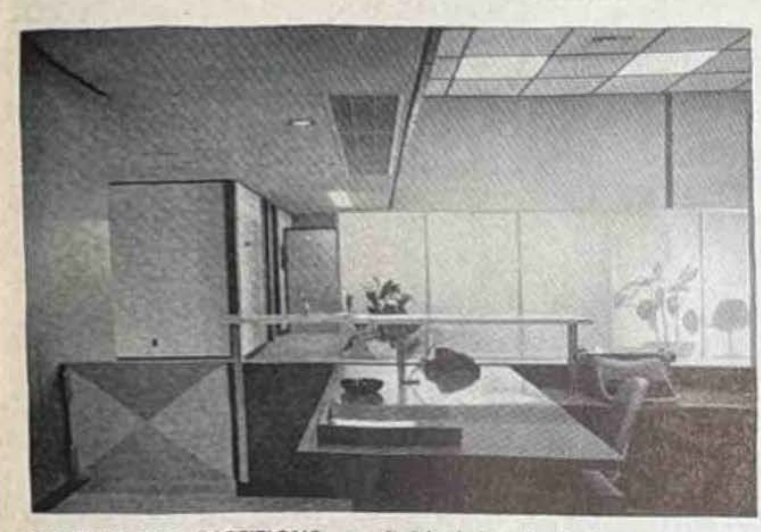
Interior planning, from the sel tion of furniture, fabrics, carpet and accessories to the design of sets, form holders and signs, was work of Craig Ellwood Associate



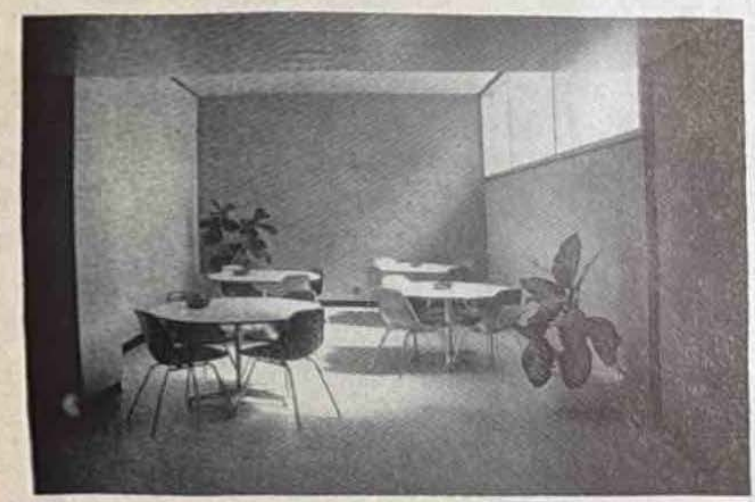
CEILING GRID has recessed 4-ft. square fluorescent fixtures spaced with acoustical paneling to provide 60 footcandles of light over office areas and counters, 30 footcandles over public areas.



CONTINUOUS COUNTER accomodates eight tellers who perform tasks at standard counter height. When aluminum framed wireglass gates are closed, cages are not apparent; when opened, cages are properly defined.



FIXTURES AND PARTITIONS are finished in plastic laminates, sheet cork, walnut plywood and translucent wireglass, framed with rectangular aluminum tubing and rectangular aluminum bar.



EMPLOYEE FACILITIES consist of kitchen-dining room and lounge area.

OUTLINE SPECIFICATIONS

Structure: foundation: 12x20-in. continuous concrete footing, 4½- to 12-ft. high reinforced concrete retaining wall at south side; **frame:** 8-in. columns 16½ ft. o.c. with 50-ft. tapered steel beams and 20-in. I-columns with steel truss rigid frame—Bethlehem Pacific Coast Steel Corp., fabricated by Builders Steel Corp.; **roof:** 2x10-in. wood joists 16 in. o.c. with 1x6-in. diagonal sheathing; **walls:** 8-in. concrete block—Rocklite Products Co.; **floors:** 4-in. concrete slab.

Exterior Finish: exposed concrete block with one coat of water-resistant color (Cemelith), one coat of vinyl acetate emulsion with color pigments (Chromalith)—Super Concrete Emulsions, Ltd.

Roof Surfacing: built-up, 20-year—Pabco Products, Inc.

Doors: entrance: tubular aluminum frame—Acme Metal Molding Co.; **interior:** solid core with paint grade hardwood facing—General Veneer Co.

Insulation: acoustical: ¼-in. sheet cork—Gold Seal Division, Congoleum-Nairn, Inc.; acoustical plaster; ¼-in. perforated tempered hardboard (Presdwood)— Masonite Corp.; 2-in. roll blanket (Sonocor)—Owens-Corning Fiberglass Corp.; **thermal:** aluminum foil-enclosed medium-thick roll blanket (Fiberglas) between joists —Owens-Corning Fiberglas Corp.

Floor Surfacing: terrazzo; asphalt tile (Holiday, Tile-Tex) —Pioneer Division, The Flintkote Co.; vinyl tile —Robbins Floor Products, Inc.; vinyl sheet—Armstrong Cork Co.; carpeting.

Interior Finish: exposed concrete block with two coats of vinyl acetate emulsion (Chromalith)—Super Concrete Emulsions, Ltd.; hardwall plaster over gypsum wallboard—United States Gypsum Co.; Keene's cement waterproof plaster in toilet rooms; glazed ceramic tile around urinals, toilets—Gladding, McBean & Co.

Ceilings: ¼-in. perforated hardboard (Preswood)—Masonite Corp.; gun acoustic vermiculite-hardwall plaster (Hi-Sorb)—Highland Stucco and Lime Products, Inc.

Lighting Fixtures: recessed fluorescent (Visionaire) with ⅝-in. square, ⅝-in. deep white plastic louvers except three in front lobby with white plastic dome covers—Sunbeam Lighting Co.; recessed louvered incandescent in toilet rooms, lobby, halls, stairs; polished aluminum wall brackets—Century Lighting, Inc.

Heating: three-zone, gas-fired, forced warm air system—Reznor Mfg. Co.; controls — Minneapolis-Honeywell Regulator Co.

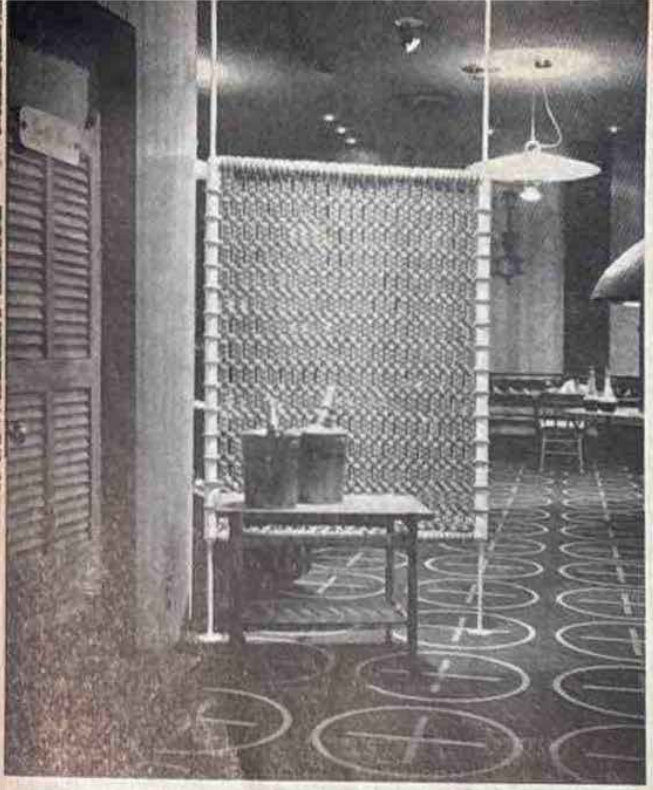
Air Conditioning: 20-ton refrigerated unit—Carrier Corp.; controls—Minneapolis-Honeywell Regulator Co.

Plumbing and Sanitary: water closets, lavatories—Crane Co.; 75-gal. glass lined water heater—General Water Heater Corp.; medicine cabinets, paper holders—Hallmack Co.; water fountains—Haws Drinking Faucet Co.

Total Area: 7,740 sq. ft., excluding courts.

Cost per Square Foot: $17.06.

Date of Completion: March 1958.



MAIN ENTRANCE is embellished with square-knotted rope screen, framed charts, native stone wall and metal lemon tree. Display barbecue has two roasts turning in view from lobby and lounge. Old ship's door leads to powder room.

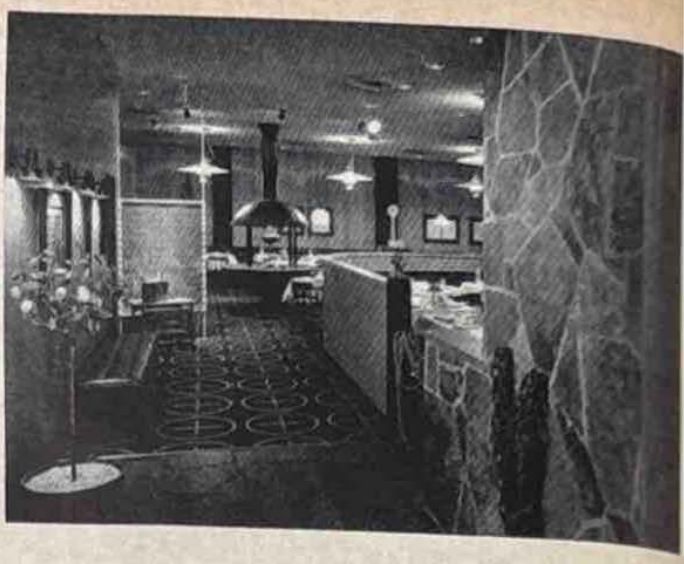


Chart Room, Westward Hotel
Anchorage, Alaska

•

DOUGLAS BENNETT
Designer

J. B. WARRACK CO.
General Contractor

RESTAURANT PROPER can be enlarged by incorporating banquet areas seen at rear. Custom-designed carpeting carries out compass theme.

Art Hupy photos

In the Northland: authentic mood for dining

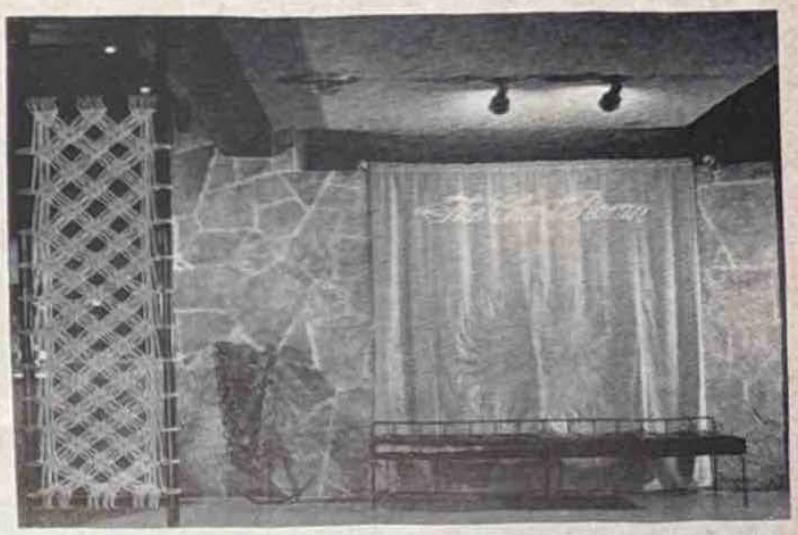
THE PROBLEM was threefold: to provide the major hotel in Alaska's largest city—Greater Anchorage, 63,000*—with wining and dining facilities that would be 1) suitable to the local patronage of an expanding community; 2) adequate to a growing cosmopolitan and well-educated Alaskan clientele; and 3) worthy of tourists traveling the Alcan Highway from all parts of the United States and Canada, by air to the vast fishing and hunting resources of the Kenai Peninsula or via the Polar routes to the four corners of the earth. Heretofore only a small coffee shop and lounge were made available by the client.

Within a new concrete shell erected adjacent to the hotel, the designer located a 300-seating capacity restaurant, two banquet rooms, lounge, broiler, rotisserie and the renovated coffee shop. The sailing vessel was chosen as the motif for its reference to Alaska's historical past and its psychological connotations of mood and elegance; for its emphasis on the use of highly durable materials such as oil finished teak and oak, brass and leather; for its adaptability to a fresh, contemporary approach.

Color and interest were further added by the selection of authentic marine memorabilia—framed 17th Century sailing charts and engravings, ships' fittings and running lights combed from the waterfronts of the world. The low-keyed color scheme depends for warmth upon vivid accents, the textural contrast of polished brass, the patina of leather and wood, square-knotted and cedar float screens and dividers, custom wool carpeting and carefully devised lighting.

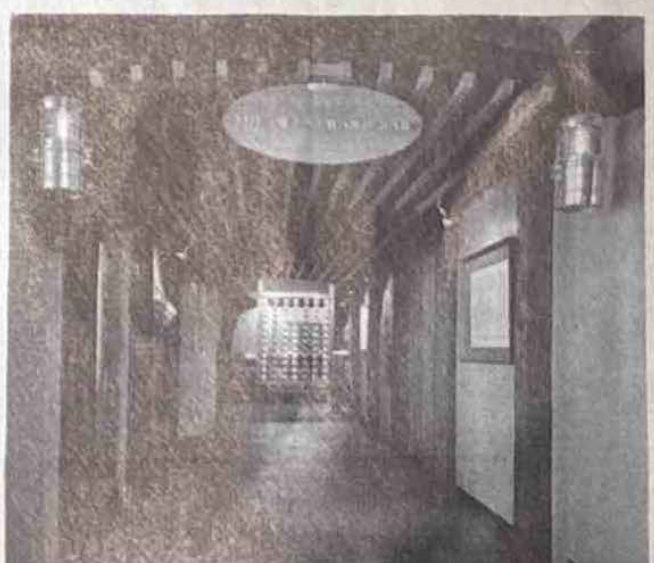
In keeping with the character of the operation, service and accessories down to the last teak-handled steak knife and Danish pepper mill; all graphic materials (menus, place mats, coasters, etc.); and even employees' uniforms were designed and/or supplied by the designer himself.

*Corps of Engineers estimate, not including adjoining Fort Richardson and Elmendorf Air Force Base, largest military installations in Alaska.



VELVET DRAPE embroidered with compass, custom bench and slate floor compliment stone wall at approach to dining area.

ENGRAVINGS on rough sawn columns and ship's fender decorate lounge, with fish net float screen at entryway (below).



OUTLINE SPECIFICATIONS

Structure: foundation: concrete; **frame:** concrete block; **roof:** long-span steel joists, concrete slab; **walls:** concrete block and stud; **floors:** cement slab.

Exterior Finish: exposed concrete.

Roof Surfacing: built-up asphalt.

Doors: steel, wood.

Floor Surfacing: slate; vinyl tile—Robbins Floor Products, Inc.; carpeting—James Lee.

Interior Finish: oiled rough sawn cedar; vertical grain fir.

Ceilings: acoustical plaster; oiled t&g fir.

Special Equipment: folding partitions—(Modernfold) New Castle Products, Inc., (Space-Saver) Wood Specialty Products, Inc.; rope screens—Warren Scholl.

Heating: hot air system—Anemostat Corp. of America.

Lighting Fixtures: incandescent—Camber Lighting, (custom) Svend Wohlert.

Total Area: 7,038 sq. ft.

Total Cost: $250,000.

Date of Completion: June 1957.

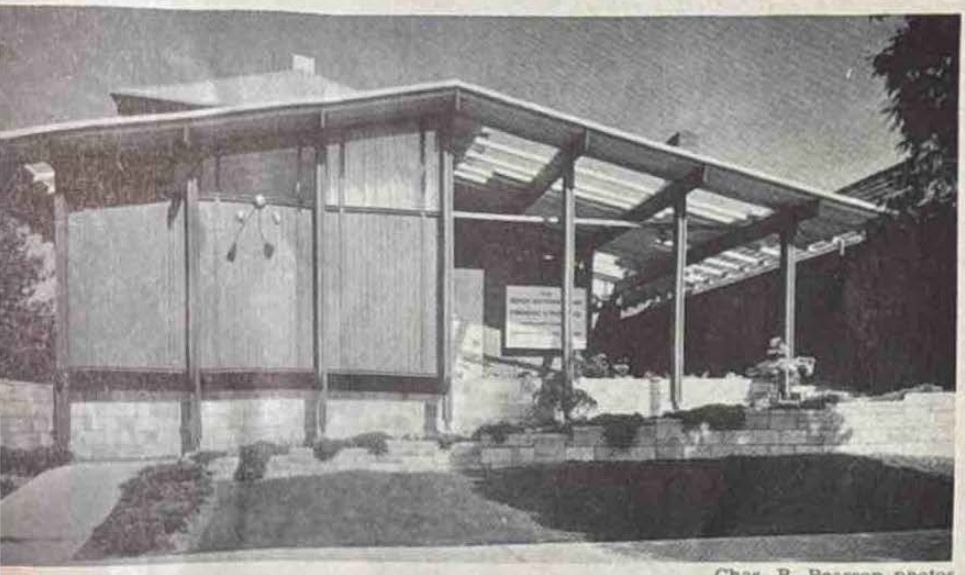
Drs. Paine & Betteridge Clinic
Tacoma, Washington

•

LEA, PEARSON & RICHARDS
Architects

JAMES J. BARNES CONSTRUCTION CO.
General Contractor

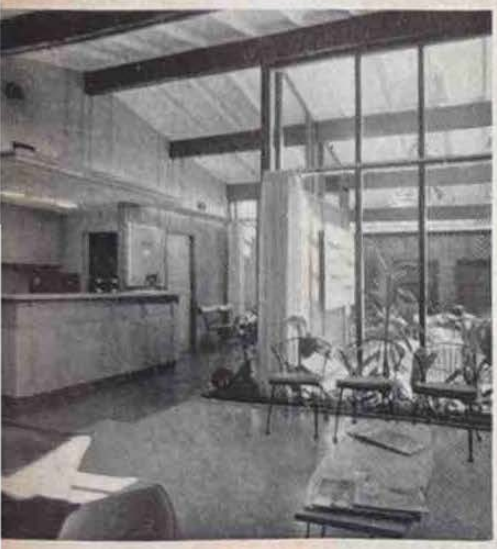
Two clinics: a remodeled hous

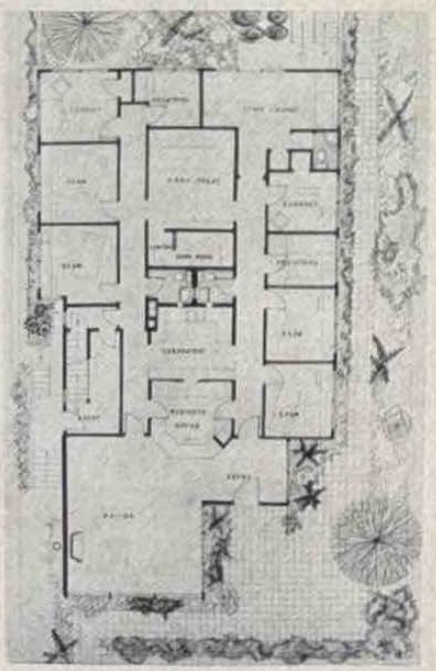


Chas. R. Pearson photos

IN PURCHASING an inside piece of property which contained an old two-story house, the clients desired to convert the structure through alterations and additions into a clinic for their own practice and to retain three small apartments on the second floor. Most serious problem encountered was devising an access to the clinic, due to the main floor of the existing house being about 4 ft. above sidewalk level. The solution: a series of ramps formed by planting areas and retaining walls. Interior is finished with gypsum wallboard and hardwood paneling. Bright tones are utilized sparingly, allowing the furnishings to create their own color scheme. David M. Hopkins was mechanical engineer; Walter S. Gordon, electrical engineer.

SERIES OF RAMPS defined by plantings and retaining walls lead to spacious waiting area. Plywood and fir trim of exterior, wallboard and hardwood paneling of interior establish clinic's residential character.





OUTLINE SPECIFICATIONS

Structure: foundation: concrete footings; **frame:** glued-laminated members; **roof:** glued-laminated members; **floors:** wood.

Exterior Finish: Douglas fir plywood (Texture One-Eleven); exposed concrete masonry; fir trim.

Windows: aluminum.

Doors: exterior: plywood slab; **interior:** hardwood plywood slab.

Insulation: blanket (Fiberglas) in all walls, ceiling of new portion—Owens-Corning Fiberglas Corp.

Floor Surfacing: plywood; asphalt tile; cork.

Partitions: concrete masonry; drywall.

Interior Finish: gypsum wallboard (Sheetrock)—United States Gypsum Co.; hardwood paneling.

Ceilings: acoustical tile (Acousti-Celotex)—The Celotex Corp.

Heating: hot air, oil fired.

Total Area: 4,100 sq. ft., first floor; 1,240 sq. ft., second.

Total Cost: $41,000.

Cost per Square Foot: $10, first floor only.

Date of Completion: July 1955.

Drs. Durkin & Banfield Clinic
Tacoma, Washington

LEA, PEARSON & RICHARDS
Architects

KORSMO BROS.
General Contractors

and a central garden room

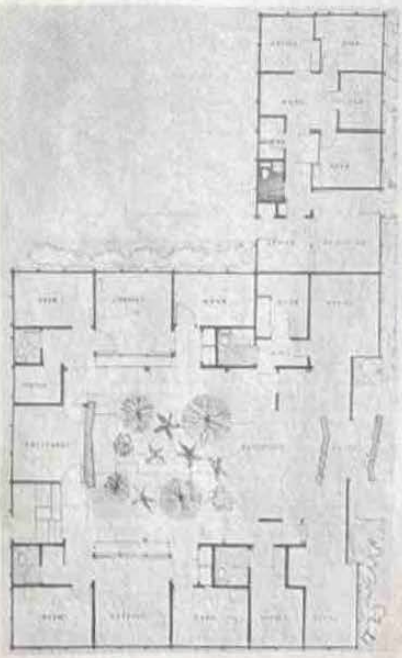
THE PROGRAM for two doctors—a neurological surgeon and a plastic surgeon—called for a building that, in view of the nature of their practices, would have a genial character both inside and out. It further required than an additional wing be incorporated as rental space for a dentist on the comparatively level 75x120-ft. lot.

Working unusually close with their clients, the architects designed a structure in which the offices, consultation rooms, etc., are located around a spacious central reception and garden room. Introduction of the garden with its rare tropical plantings was especially desirable because one of the surgeons is an amateur horticulturist. This portion is entirely covered with a glass roof, equipped with bamboo shades operated by draw cords, and contains a series of small pools in which the water is recirculated.

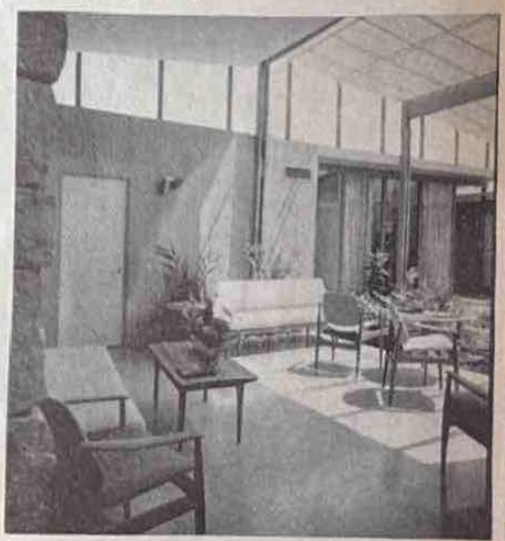
Exterior fenestration provided high in the walls admits light but insures privacy. Offices are separated from the garden area by clear glass partitions which can be covered with draw curtains. Possibility that the large amount of plantings and pools might create a humid condition has been overcome by strategically placed air supply and exhaust vents. There has been no condensation to date and all glass areas have remained completely clear.

Wall, floor and roof construction consists of stressed-skin fir plywood panels, a simple and economical framing system (see next page). Interior combines painted gypsum board, driftwood-stained vertical cedar and stone. David M. Hopkins was mechanical engineer; Walter S. Gordon, electrical engineer.

Chas. R. Pearson photos



U-SHAPED STRUCTURE has varying levels of roof design to avoid boxy feeling, is planned around central court. Raised shed roof of reinforced glass admits light to garden featuring rare tropical plantings.



OUTLINE SPECIFICATIONS

Structure: foundation: concrete footings; frame: post and beam; roof, walls, floors: stressed-skin plywood panels — Panelbilt Systems, Inc.

Exterior Finish: ½-in. t&g cedar laid vertically; sandstone; wood, aluminum trim.

Roof Surfacing: built-up with gravel finish.

Windows: aluminum.

Doors: flush plywood.

Insulation: blanket (Fiberglas) in roof, wall panels—Owens-Corning Fiberglas Corp.

Floor Surfacing: rubber tile; terrazzo.

Partitions: drywall.

Interior Finish: gypsum wallboard (Sheetrock)—United States Gypsum Co.; ½-in. t&g cedar; metal trim.

Ceilings: acoustical tile (Acoustone)—United States Gypsum Co.; striated tile.

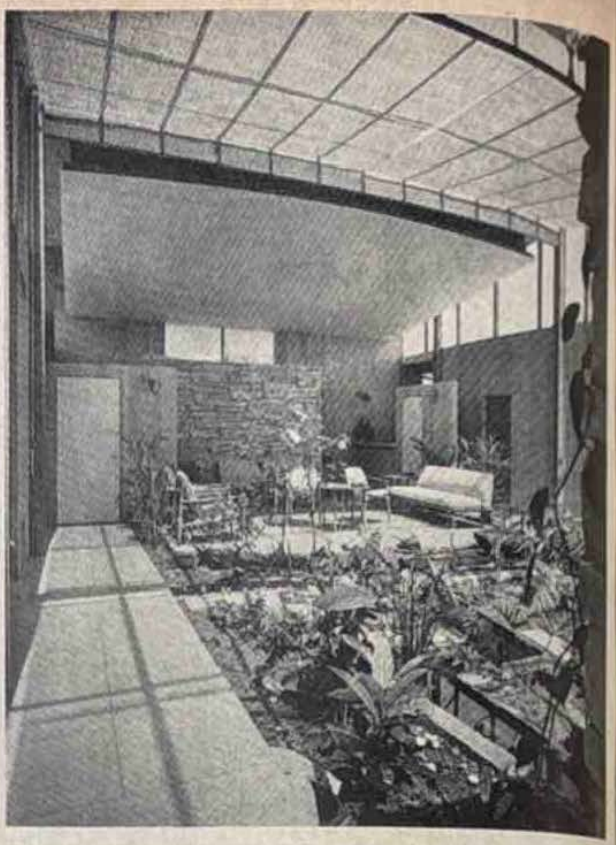
Heating: split hot water and hot air, oil fired.

Total Area: 3,975 sq. ft., including basement.

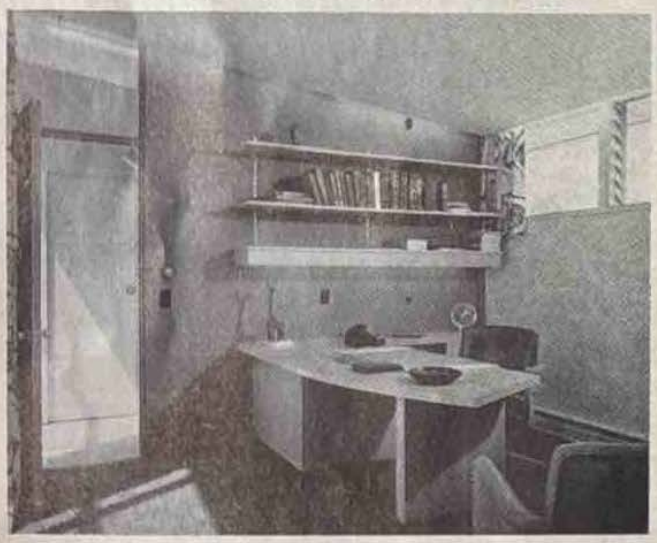
Total Cost: $72,600, including furniture except in reception room.

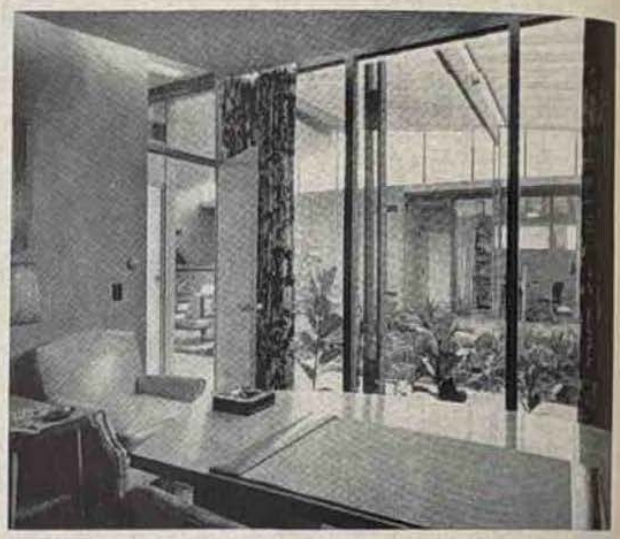
Cost per Square Foot: $18.25.

Date of Completion: June 1956.



RECEPTION AREA combines wood, masonry and glass. Driftwood and brown are dominant colors inside and out, accented by variety of bright tones. Offices are grouped around court.





Structure: The post and beam U-shaped clinic rests on conventional concrete footings which are laid out so that they serve in most instances on the supporting members for the floor panels without further framing. Where the floor plan requires it, this system is augmented with a few 4x6 girders and piers; otherwise, the spans are dictated by the footings which are generally on 14-ft. centers. Exterior walls are framed with 4x4s on 4-ft. centers, with 4x6 beams across the posts. Roof is supported on these beams and on glued-laminated beams for longer spans where required. Spans for roof panels are ordinarily 16 ft.

Panels for floor, wall and roof surfaces are assembled with a top and bottom skin of plywood glued to appropriate framing depending upon the purpose. They are laid up with the surfaces slightly off center along the length, providing an exaggerated t&g joint in which the side framing on one panel acts as a tongue that fits inside a wide groove on the adjacent panel formed by slightly overhanging plywood edges. Extra spacing is allowed in the groove of the logitudinal joint to provide a wiring chase and to permit slight variations in placement of supporting members. Plywood surfaces, however, butt solidly in all cases. Glass insulation with an aluminum reflective surface is applied to the underside of the top skin of the panels while in the shop.

Chilled water piping for IBM campus

• More than 8,000 ft. is underground

WHEN International Business Machines Corp. decided to use a 3,450-ton central unit to air condition its new plant in San Jose, Calif., the problem arose of how to handle the extensive network of chilled water pipe lines running through the 190-acre site to six other buildings.

Consulting engineers Keller & Gannon considered four solutions: 1) overhead or above-ground piping; 2) concrete tunnel method; 3) presealed steel conduit; 4) direct burial unjacketed technique.

Overhead or above-ground piping was eliminated both because of its unsightliness and because it would obstruct traffic patterns in the plant grounds. The supporting structure for overhead piping would add considerably to the overall cost.

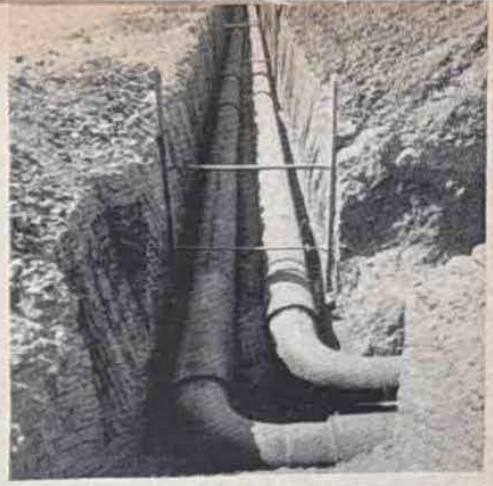
In the concrete tunnel method, 6- to 8-ft. rectangular or round tunnels are built underground and the insulated pipes are generally supported along the roof and walls of the tunnel. Cost studies indicated this method to be 200% to 300% higher than direct burial.

Presealed steel conduit, which has molded insulation surrounded with a jacket of steel, would have cost 30% to 60% more than the direct burial unjacketed method. In addition, presealed seamless conduit would require tests to be made of the pipe and jacket before it was covered. The jacket would have to be welded after the pipeline was installed in the trench.

The direct burial unjacketed method was chosen because of considerable cost savings and a much simpler installation procedure. Foamglas, Pittsburgh Corning's cellular glass product, was specified as a multiduty type insulation that would cut heat gain, protect the pipe from corrosion, support the weight of the filled pipe and be proof against soil chemicals and moisture.

Easy Does It: Says Perry Holmes vice president of Plant Asbestos Co., insulation contractor: "We simply insulated the 40-ft. lengths of pipe as they rest at waist height of wooden dunnage along the topside of the trench. After the pipe was welded and tested, we covered the weld with Foamglas and the trench was ready for backfilling. Working overhead when insulating pipe (as we would have to do in utility tunnels) is extremely uncomfortable. The hot asphalt drips down, the men become tired and the whole job becomes really hard work."

Between 8,000 and 10,000 ft. of the chilled water piping is underground and this amounts to 60% of the total amount of chilled water pipes. The two main line pipelines are each over 3,000 ft. in length with the longest branch line running 150 ft. Pipes range in nominal size from 18 to 8 in. on main lines and from 14 to 4 in. on the branch lines. All pipe is seamless steel meeting ASTM specification A53.



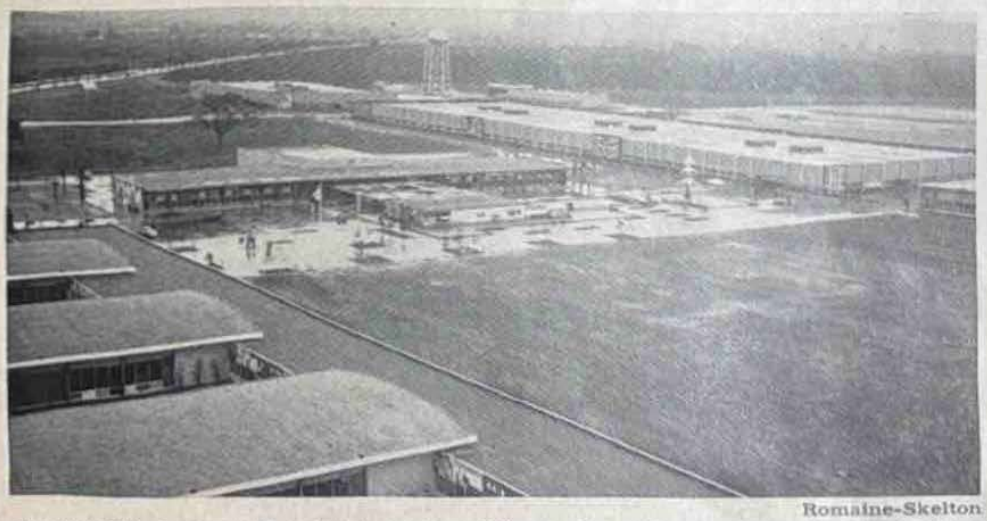
CHILLED WATER LINES ready for test.

The bottom of the earth trench, which is 6 to 11 ft. deep and up to 6 ft. wide, is covered with a 6-in. bed of sand. This is compacted with high-frequency vibrating equipment to provide a flexible carrier protecting the pipe against excessive shock in case of earthquake. After the pipe is lowered into place, it is covered with a backfill of sand on all sides. Each trench contains supply and return pipes.

In insulating the pipe, the pipe surface was first covered with an asphalt cutback. Foamglas was then cemented to the pipe with an asphalt cutback staggering and sealing the longitudinal joints. Stainless steel bands further secure the insulation after which a 1/6-in. asphalt coating was applied. Into this a glass fabric membrane was imbedded and a hand troweled mastic applied to complete the installation.

Three 1,150-Ton Units: York air conditioning equipment rated at 3,450 tons has been installed in the powerhouse building and will supply chilled water at a minimum of 45 deg. to air blowers in each structure—two manufacturing buildings, engineering laboratory, research building, education building and cafeteria. Parts of the system will operate on a seasonal basis but a portion is required to be in use constantly to maintain comfortable temperatures in manufacturing areas where heat is generated by machinery. In addition to the three 1,150-ton units, space is provided for still another should it become necessary.

John S. Bolles was architect; A. S. Peters & Son and Scott Co., mechanical engineers; Carl N. Swenson & Son and Haas & Haynie Corp., general contractors.



Romaine-Skelton

AERIAL VIEW of campus-like plant located on 190-acre site, with extensive underground piping.

Photos courtesy Kaiser Steel

- **Racing fans insured clear view of track**

Steel plate girders cantilever 60 ft.

A THREE-LEVEL GRANDSTAND, featuring a cantilever roof supported by huge fabricated steel plate girders to give spectators an unobstructed view, is taking shape at the Stockton, Calif., fairgrounds in preparation for the August racing season.

Fifteen horseshoe shaped fabricated steel frames, standing 65 ft. high and set on 25-ft. centers, will form the framework for the 350-ft. pavilion, one of the first of its type to be built in the West. Ten-inch I-beams are being used as the purlins between the upright frames. Each of the sections is fabricated in four parts, bolted together at the jobsite before being erected.

Cantilever sections, fabricated by National Iron Works, extend about 60 ft. out from the back wall to form the roof cover. Use of this design makes possible the elimination of supporting columns usually associated with covered pavilions, permitting a clear view of the track and fairgrounds Metal louvers in the roof will facilitate air circulation.

The structure incorporates a mezzanine under the stands to house concessions and pari mutual windows. Other concessions and windows are located on the ground level under the mezzanine. In addition to horseracing, the grandstand will be used for rodeos, motorcycle races, outdoor stage shows and other events throughout the year. Seating 3,776, it is part of a multimillion-dollar modernization underway at the Stockton fairgrounds.

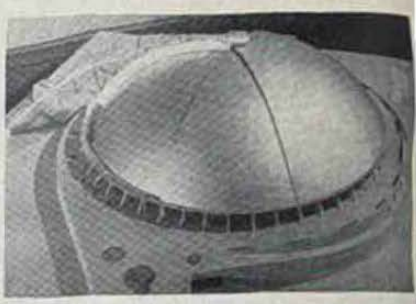
Architect and engineer for the pavilion is the California State Division of Architecture; structural engineer, Edwin A. Verner; and general contractor, M & K Corp.

AT STOCKTON FAIRGROUNDS cantilever sections eliminate columns, permit clear view of track.

Retractable steel dome for $20 million arena

The $20 million Pittsburgh Civic Arena, a key structure in the city's civic redevelopment program, will have a retractable stainless steel dome, largest in the world. When retracted, six movable sections (three on each side) of the 415-ft diameter roof will roll over the two fixed sections to open the arena to the skies.

The stainless steel sheathing and mechanical seals will cost an estimated $890,000; the structural steel that forms the dome, $4 million. Mitchell & Ritchey are architects for the arena; Amman & Whitney, engineering consultants.



LARGEST MOVABLE DOME in world will provide Pittsburgh with open air stadium that can be converted to weatherproof auditorium at press of button. Seating arrangement will accommodate from 7,500 to 14,000 persons depending upon event.

Idaho dry kiln has upside-down roof

Extreme humid conditions in dry kilns prompted an engineer to transpose the usual positions of vermiculite roof insulation and roofing at the Emmett, Idaho, mill of Boise Cascade Corp., as a means of assuring maximum protection for the insulation and thus reducing heat loss through the deck. An asphalt mastic "roofing" was applied under the structural concrete roof and then an insulating concrete fill was placed, thickness varying from 3 to 8 in. for drainage purposes. Its surface is protected with a clear silicone to act as a watershed.

Four thousand bags of Zonolite concrete aggregate (1:6 mix) were required for the 26,500 sq. ft. of roof area. C. M. Lovested was engineer.

Aluminum roof, glass walls

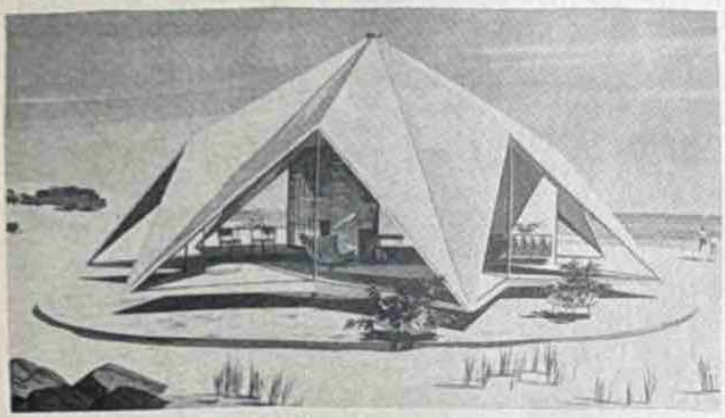
A BEACH HOUSE composed of colored aluminum and glass can now be fabricated and erected anywhere in the U. S. through arrangements made by its sponsor, Aluminum Company of America. The star shaped, luxury residence was introduced last year as part of Alcoa's collection of designs of the future.

Planned by Robert Fitzpatrick of the architectural firm of Harrison & Abramovitz, the 1,330-sq. ft. structure currently is priced by builders in the $25,000-and-up range. These quotations have covered fabrication and complete installation on the owner's lot. Construction would be by local contractors. Alcoa will not manufacture the dwelling but will supply aluminum to the fabricators. Thus far, one Pennsylvania firm has announced its readiness to produce the beach house.

Engineered around a central aluminum column, the floor plan is based on a circle of 37-ft. diameter, formed by small identical triangular sections. A peaked aluminum roof fits over the house like a conical cap, 15½ ft. above the floor at its central point. Walls are triangular glass panels which fit snugly into the inverted V shaped grooves formed by the roof.

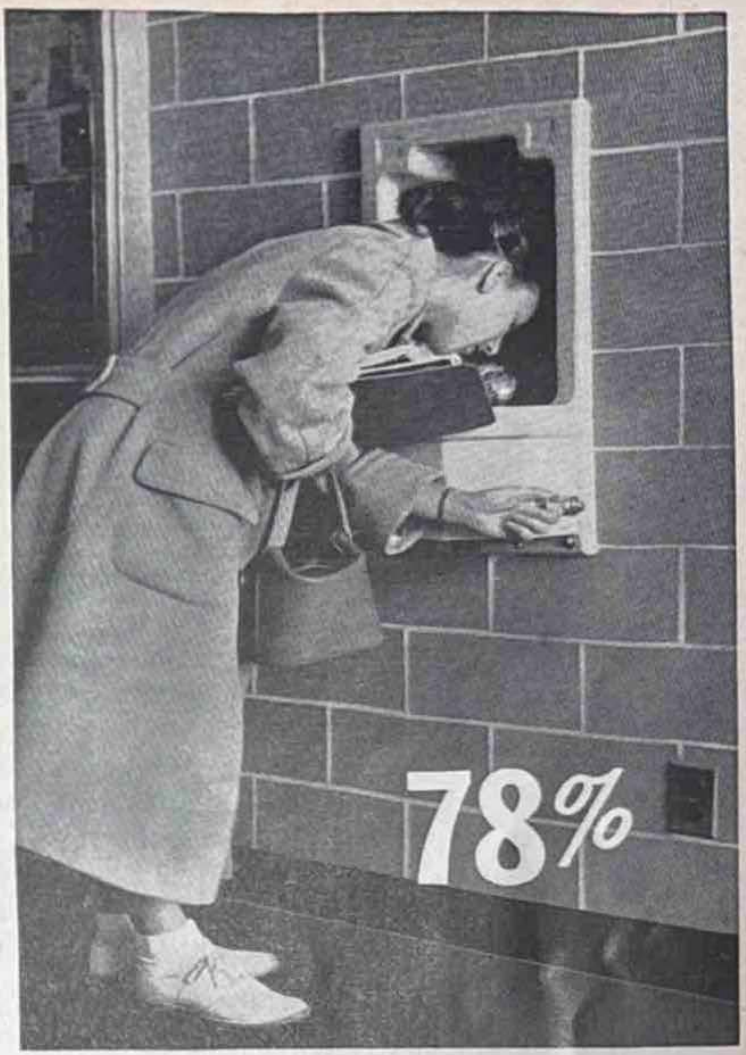
One concept, not planned for immediate availability, calls for the central column to be mounted on a turning mechanism so that the entire house can move with or away from the angle of the sun.

METAL AND GLASS STRUCTURE, displayed in scale model at 1958 Los Angeles Home Show, may soon be fabricated commercially.



Product developed from wood residues

"One of the most significant developments in the Wood Technology Section in years" is the way that Dr. George Marra, who heads that section at State College of Washington, decribes Flapreg, a new product composed of wood flakes and resin. In appearance and physical properties, it resembles Compreg and Impreg, two products made from high-grade veneer. In contrast, Flapreg is inexpensive to produce because flakes can be made from wood residues and can be handled mechanically throughout the process. The finished product has a shiny, varnished appearing surface and is strong and suitable for many uses, including table, counter and furniture tops and wainscoting in public buildings. It has been developed by John W. Talbott, wood technologist with the college's Industrial Research Division. Report No. 5 explaining the process can be obtained by writing to Technical Extension Services at Washington State in Pullman.



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* *Naturally, it's our own survey. Like to see the full report? Shape chart, Graphic Standards for Glazed Tile and specification details also available for the asking.*

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high output troffer

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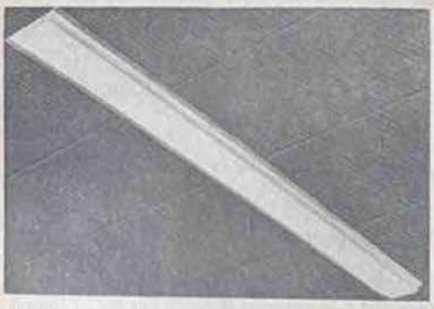


lighting at low cost. It is especially suited for large offices, drafting rooms and merchandising areas where long continuous lines of unbroken light are desirable. The troffer is available in widths up to 12 in. (8 in. is standard) and in units up to four lamps (slimline only); standard lengths are 4, 6 and 8 ft.—Lighting Dynamics.

(Item No. 1)

form tie

Plasticone, designed to produce a positive breakoff 1 or 1½ in. back from the surface of the finish concrete, incorporates a molded polyethylene cone which is inserted in each end of the form tie. It envelopes the tie from the point of breakoff out to the surface of the wall, thus preventing excess bleed at the tie-slot. Since concrete cannot adhere to its glass-smooth surface, the cone can be removed and tie broken back immediately after stripping the forms.—Gates & Sons, Inc.

(Item No. 2)

semitransparent stains

An entirely new series of Olympic semitransparent stains for both redwood and cedar range from an off-white through 14 varied hues of grays; from light and dark browns to a near-black. (Sample color fans are available.) Stains are offered in two consistencies: heavy bodied for use on new woods and for restaining and recoloring side walls and roofs; penetrating for use on new woods only. They are free of creosote and wax resins and can be restained or painted easily.—Olympic Stained Products Co.

(Item No. 3)

plywood form coating

Formsaver is a coating to be applied by brushing, spraying or dipping to plywood concrete forms to permit them to be used over and over again without loss of effectiveness. By coating and sealing the faces and edges of the form, it prevents water or moisture absorption, delamination of the plywood, checking and warping. Formsaver covers 200 gal. per square foot, requires no thinner and is quick drying so that forms may be stacked at once.—A. C. Horn Co., Inc.

(Item No. 4)

office machine enclosure

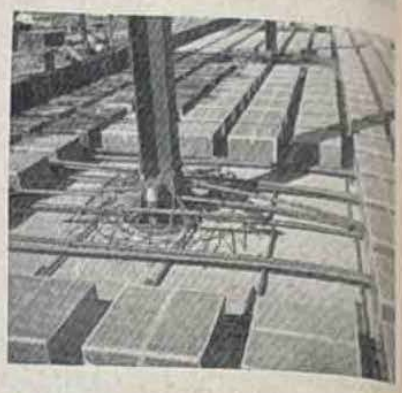
An all-steel office machine enclosure is reported to reduce machine noise by more than 50%. Among GSC features: level adjustment on legs; optional lighting; standard office gray and white colors, with special painting on request. Metal glides on bottom of legs permit easy moving in the office.—General Sound Control, Inc.

(Item No. 5)

post-beam connector

A simple and inexpensive way to firmly connect wood posts to beams or concrete, the Teco-Cal Ank-R-Cap has special appeal to the architect and engineer because it can be completely concealed by ordinary means, leaving a neat finish to the exposed members. Formed from 16-gage galvanized steel, the connector is produced in two sizes —4 and 6 in.—which fit most connections and reportedly has a dependable resistance to uplift and is adequate for all directions of loads.—Timber Engineering Co. of California, Inc.

(Item No. 6)



fiberboard void form

Use of Formavoid, initially employed in concrete lift slab construction, has now been extended to include poured-in-place, precast and prestressed concrete construction. The fiberboard void form has a special plastic coating which resists moisture penetration from wet concrete and affords good stripping. Its adaptability in shape and size variations presents broader design possibilities to architects and engineers.—Container Corporation of America.

(Item No. 7)

sliding glass doors

Arcadia's Series 102 sliding glass door introduces several engineering features: complete watertightness due to a unique sill design and outside slider that eliminate interior and exterior pressure problems; removal of the screen to the inside of the door which means unusually clean sight lines; replacement of metal tracks with nylon; and a neoprene glazing channel which eliminates putty. Especially designed for economical installation, Series 102 is manufactured in aluminum.—Arcadia Metal Products.

(Item No. 8)

plastic pipe

After several years of research, Quaker has made a move toward lowering the price of flexible plastic pipe without sacrificing wall thickness, pipe weight or burst strength. By adding a pure white polyethylene core, the pipe also takes on eye appeal and has excellent corrosive resistance to any type water.—Quaker Rubber Division, H. K. Porter Co., Inc.

(Item No. 9)

READER SERVICE

Pacific Architect and Builder
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JULY 1958

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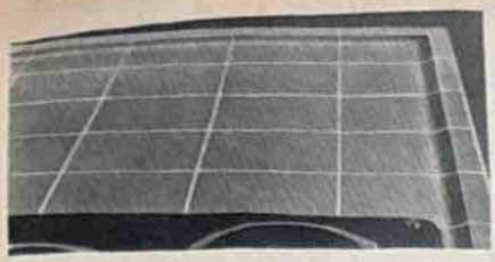


modular cap

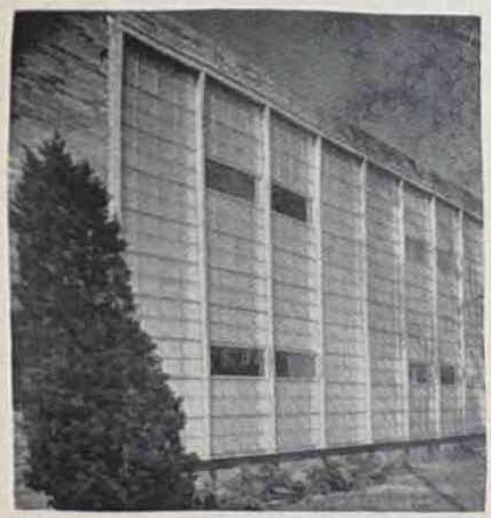
Redondo's continuous molded surface between cap and deck eliminates hard-to-clean grout joints of a two-piece installation on kitchen decks, bathroom counters and pullmans; answers the designers' demand for linear objectivity — grout lines continuing unbroken throughout. The 6-in. sides of the modular cap are being duplicated in all trim shapes in the 900 Series Wear-Ever glazes. — Redondo Tile Co. **(Item No. 10)**

forced air furnace

Payne's Series 10 Imperial forced air furnace line includes five sizes of downflow models in capacities from 80,000 to 160,000 Btu. and nine sizes of upflow models from 75,000 to 200,000 Btu. All are available with either black iron or the new Astrogard coated heating elements. The latter is described as "a patented formula which includes boron and 22 other elements combined for scientific fusion to metal by a cermet process developed for jet engines, air frames and missile parts exposed to sudden thermal shock changes in temperature," resulting in corrosion resistance and other protective qualities.—The Payne Co. **(Item No. 11)**

curtain wall system

Thinlite curtain wall system, a complete enclosure element with both exterior and interior finish, insulation, structural independence and a means of attachment to the building, is said "to allow the architect complete freedom to express his own individuality of design." The daylight-controlling glass units are hollow, 2 in. thick and 12 in. square, planned for either a 4- or 5-ft. horizontal module. Basic panels are available in three colors—white for general use; blue-green for severe sunlight exposures; sunlight yellow for non-sun exposures. As a means of design expression, basic panales are supplemented with ceramic-face glass, decorative glass, porcelain and other special types.—Owens-Illinois Glass Co. **(Item No. 12)**



low voltage systems

Low voltage, multiple switching systems for residential and commercial installations in all price ranges now are a practical reality. Touch-Plate offers prewired units, color coded leads to provide a color matching method of wiring; pigtails installed at the factory on all components; switches preassembled at the factory; and multiple sections controlling a single circuit wired in parallel. No conduit is required and switches mount in switch plaster rings, eliminating boxes, and are designed with only ½-in. depth.—Touch-Plate Manufacturing Corp. **(Item No. 13)**

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America's most beautiful homes

Split by hand from one of Nature's most durable woods—the giant Western Red Cedar—these rugged shakes are the aristocrats of roofing and siding materials. Their quality, however, depends upon the care and ability of the man who makes them. *For shake-splitting is truly a craft.* That is why the Certi-Split label is supremely important to you. Insist that this label appear beneath the bandstick of every shake bundle. It is your assurance of *top quality, uniform quality* that has been examined by experienced, impartial Bureau inspectors.

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T-SQUARE TALK

new partners

Richard R. Rhodes is a new partner in the Eugene architectural firm of Balzhiser & Seder, now known as Balzhiser, Seder & Rhodes. A graduate of Pennsylvania State University in 1941, he has been associated with firms in New York and Eugene.

new addresses

George Vernon Russell, architect, to the Los Angeles Teachers Credit Union Building, 410 N. Rosenell Terrace, Los Angeles.

Dale D. Pedersen, architect, to the Grosvenor House, 500 Wall St., Seattle.

Rex Whitaker Allen, architect, to 693 Mission St., San Francisco.

Edward Mahlum, architect, to the Lloyd Building, Sixth and Stewart, Seattle.

William Jordan, architect, to 771 W. 19th St., Costa Mesa, Calif.

Frank M. Smith Jr., architect, to 904 Seventh Ave., Seattle.

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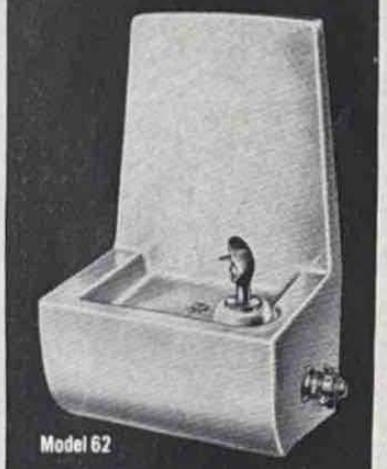

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Thomas & Harstad & Associates, an Howard T. Harstad & Associates, an Frankfurter, Harstad & Associates consulting engineers, to the Carpenter's Center Building, 2612 Second Ave., Seattle.

deaths

Clyde Grainger, 71, a fellow of the AIA, died June 21 after several weeks' illness. A graduate of the University of Washington, he joined the firm of Thomas, Grainger & Thomas in 1924, designing such buildings as Harborview County Hospital, Rhodes Department Store and the university's Bagley Hall. The architect was a member of the Seattle Planning Commission from 1944-50 and a past president of the Washington State Chapter, AIA.

retirements

P. T. Poage, assistant architect for a third of a century in the California State Division of Architecture, will retire August 1.

elections

Montana State Board of Architectural Examiners has elected these officers; Sigvald L. Berg, Helena, president; Chandler C. Cohagen, Billings, secretary; Angus V. McIver, Great Falls, treasurer; and H. C. Cheever, Bozeman, reelected executive secretary-treasurer.

John B. Morse, architect, has been elected president of the Greater Seattle Housing Council.

awards

Recipient of an honorary Doctor of Fine Arts degree from the California College of Arts and Crafts, Los Angeles architect Charles Luckman delivered the commencement address at the Oakland institution last month.

Gregory Ain, Los Angeles architect and visiting critic in the School of Architecture at the University of Southern California since 1949, has received the Silver Medal, annual award of the SC student chapter of Scarab. The fraternity recognized Ain's "great contribution to contemporary architecture and the sincerity of his continuing efforts to bring to young people in the field the benefits of his experience as an outstanding architect."

lecturers

Richard J. Neutra presented a series of lectures on "Architecture Today and Tomorrow" at the Uni-

versity of Witwatersrand in Johannesburg last month. The Los Angeles architect was sponsored by the Students' Visiting Lecturers Fund, administered by students who select personalities to discuss the fields in which they have won world recognition.

✔ Myer R. Wolfe, professor of urban planning at the University of Washington, has been awarded a Fulbright grant to lecture in Denmark and is expected to leave Seattle about January 1.

architectural tours

✔ The annual Mexican architectural seminar-tour will get underway September 21, the 13-day trip including visits to the finest homes and architects' offices. Address inquiries to T. H. Hewitt, 2413 Driscoll St., Houston 19, Texas.

✔ Kenneth M. Nishimoto, Pasadena architect, will again lead an architectural tour to Japan, flying from Los Angeles or San Francisco to Honolulu October 9 and then on to Tokyo. (Accomodations by ship also will be available.) Three weeks will be spent visiting landmarks, architecturally famous structures and model Japanese gardens. For further details write the architect at 263 S. Los Robles Ave., Pasadena, Calif.

campus notes

✔ Chairman Harry C. Weller has announced several changes in the teaching staff of the department of architectural engineering at the State College of Washington. Fred G. Rounds, associate professor, is retiring after many years of service, both in the department and as supervisor of buildings and grounds. He is remaining in Pullman to open his own office for the practice of architecture. Rounds will be succeeded by Albert D. Poe, assistant professor, from the School of Architecture and Allied Arts at the University of Oregon. Charles D. Peterson will go into private practice in Salt Lake City, being replaced by Donald R. Heil of Chicago, most recently associated with the office of Skidmore, Owings & Merrill.

AIA activities

✔ Washington State Chapter has elected these officers: Harrison J. Overturf, president; Lawrence G. Waldron, first vice president; Thomas F. Hargis Jr., second vice president; Talbot Wegg, secretary for his second term; and David R. Anderson, treasurer. All are from Seattle except Hargis of Yakima.

Chaotic building codes (Cont'd. from p. 10)

Jurisdictional Disputes in Washington was notified. The National Joint Board notified John E. Rooney, president of the Plasterers Union in Cleveland, to order the men back to work. Instead, we got word that they had "gone fishing." Those Texas plasterers must certainly like to fish, for they fished, off and on, for about six weeks until Mr. Rooney just happened to stop off at the Dallas Airport between flights.

Working tools are another source of jurisdictional trouble. I learned that if you attach a handle to a blade in the same direction as the blade, you have a trowel and you are a plasterer. If you attach the same handle at right angles to the blade, you have a broad knife and you are a painter. Now a trowel happens to be a more efficient tool for spackling, but the painters cannot use it. Far worse, in New York we cannot spray paint or roll it on without special permission from the union. But do not laugh. In New York we can at least use a brush 5 in. wide. In many cities you can use

new perimeter insulation

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cuts costs—speeds construction

Scorbord* is a Dow plastic foam insulation specifically designed for use along the edges of foundations. Scorbord substantially reduces building costs—cuts sawing, cutting and fitting time up to 80 per cent. An FHA "materials release" has been issued.

Big 8-foot x 2-foot, easy-to-handle sections of Scorbord are pre-scored and snap quickly to almost any desired width. Lightweight Scorbord lasts a lifetime. It resists moisture, heat, cold and deterioration and will not attract rodents or vermin. It can withstand weights of 2,000 pounds per square foot.

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only a 4-in. brush.

All these restrictions cannot help but affect costs—and they do. The electrical subcontract bid on our Pittsburgh Hilton Hotel last year, with 815 rooms, no boiler or refrigeration plant, and with no laundry to connect, was twice as high as the electrical bid on our Dallas hotel in 1953. And the Dallas job had 1,000 rooms, a complete boiler and refrigeration plant, and a laundry. There had been some inflation in the interim, to be sure, but prices had not risen that much.

Progress Denied: The point that emerges is this: American building, with all the technical developments and mass production methods supposedly at its command, actually can use only a small portion of the available technology. Why? Because of the provincialism and isolationism of local interests. In Pittsburgh when I tried to quote a nationally recommended code on ventilation recently I was advised, in effect, that "you are in Pittsburgh now." Contrast this featherbedding and restrictionism with our experience in countries abroad where we are building five hotels. In every case the foreign governments wanted to capitalize on the latest technical developments of the U.S. On each of the jobs, for instance, we are following the recommendations of the National Plumbing Code and consequently we are using only a fraction of the amount of pipe that we would have to use here.

Masters or slaves? How can we solve this problem of anarchic codes and restrictive union practices? This is no job for one architect, certainly, or even for a dedicated group of architects. It is a job for the entire architectural profession. Are we to be master builders, or are we to be pliant slave builders who will accept the tyranny of senseless codes? What we need is joint action. If one doctor advises the use of a new vaccine, his voice will probably not carry far. But if the American Medical Association announces that a certain vaccine is beneficial, the public listens. Why does not the AIA emulate the AMA? Why does not the AIA speak out on codes?

What the AIA must do is clear. It must: 1) proselytize local governments to adopt and follow the national codes proposed by various national organizations and other groups; 2) undertake a well-organized campaign to educate the public to just how damaging restrictive union practices are.

The AIA should adopt forthwith a resolution calling on the cities and states to prescribe that builders meet the specifications of recommended national codes such as the National Electric Code, the National Plumbing Code, the codes of the American Concrete Institute and the American Institute of Steel Construction, and the standards of either the Building Officials Conference of America or the Uniform Code of the International Conference of Building Officials. Later, the AIA should propose amendments and improvements to these codes and make sure that local appeal boards are set up to correct the more serious flaws that show up.

The second task — educating the public to the harm done by restrictive union practices—is more difficult of achievement. The public must be told through a vigorous public relations campaign waged by the AIA, through institutional advertising and through local chapter action, just how much these practices are costing home owners and citizens generally. And the public must also be told which practices are causing the most damage—a list of the 20 or 25 worst rules could readily be drawn—and what must be done about them.

Clearly, this is a tremendous challenge. To meet it will not only require great effort but a unity of purpose rarely achieved by the architectural profession. Yet is there really an alternative?

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says E. D. Gardiner, President, Gardiner Construction Co., Mission San Jose, California

"Our clients have learned to look for the 'important extras' when buying a home—and complete telephone planning is one of the things at the top of the list. Wise buyers want a home that will meet their telephone needs today—and tomorrow. That's why we include built-in outlets in all the busiest rooms."

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Construction News Bulletin

(A weekly summary of Pacific Construction Daily)

Vol. 64—No. 15 (PA&B) News Section of Pacific Architect and Builder July 19, 1958

Dorothy McCormick ..... News Editor Win Romtvedt ..... Portland Correspondent
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BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

■ **LUTHERAN CHURCH— Aloha, Ore.**

Select list of planholders announced by Bethlehem Lutheran Church, for construction of a one-story church structure on northwest corner of S.W. 187th and Johnson St. in Aloha. Bids will be opened 2 p.m., July 22, in the office of Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Building, Portland. Church is first unit of a building program, and will include nave, narthex, office, Sunday School room, balcony, kitchen and toilet rooms.

Planholders: Earl R. Enger, 620 S. Hall St.; Barnard & Kinney, 4200 S.W. 103rd St.; Enger Bros. Construction Co., 307 N.W. Canyon Road. Of Beaverton. Norman Builders, 2805 S.W. 3rd Ave., Portland; Oscar Luokkala, 319 N.W. 79th St., Vancouver, Wash. CG 7-16. Previous report 7-15

▲ **RESIDENCE— Ashland, Ore.**

Five bids received for constructing caretaker's residence in Jackson County on Grizzly Creek near the Howard Prairie Dam, about 27 mi. by road in an easterly direction from Ashland; Spec. No. 100C-339. Bids opened July 10. LOW BIDS: Thomas J. Parker, 1067 Ashland St., Ashland, $12,750; E. J. Fordyce, 202 Olwell Way, Medford, $14,144; Merl C. Howard, 93 Bush St., Ashland, $14,899; Rogue Valley Constr. Co., 2617 Howard Ave., Medford, $15,846; Harold W. Salter, Rogue River, $17,245. Engineer's estimate, $13,500.

RG 7-15. Previous report 6-17

★ **PRESBYTERIAN CHURCH— Beaverton, Ore.**

Award to Beebe Construction, 2134 N. Flint, Portland, $55,875, by Board of American Missions of United Presbyterian Church in the U.S.A., for construction of wood frame church at southeast corner of Watson and Denny Road, Beaverton. Plans by John Foster, architect, 410 Postal Bldg., Portland. CG 7-12. Previous report 6-17

■ **HIGH SCHOOL ADDITION— Beaverton, Ore.**

Planholders announced for construction of the shell of an auditorium addition to new Sunset High School. Bids will be opened 8 p.m., July 28, by School District No. UH 10J, Multnomah and Washington Counties, Beaverton, Ore., D. Herbert Armstrong, clerk at office of superintendent, Beaverton U.H. School. Plans with Hayslip, Tuft, Hewlett and Jamison, architects, 2040 S.W. 3rd, Portland. $25 deposit.

Planholders: Blanchard Construction Co., 2546 S.W. Vista Ave., Portland; Riverman & Sons, 1230 N.E. 63rd Ave., Portland; George Irwin, Rt. 3, Box 329, Canby. CG 7-16. Previous report 7-8

▲ **MODIFY HEATING PLANT— Bonanza, Ore.**

Three bids received at July 10 bid opening by Klamath County School District, Veterans Memorial Bldg., Klamath County, Klamath Falls, for modification of the heating plant in the Bonanza schools, Bonanza. Plans by John Merryman, mechanical engineer, 225 Grant St., Klamath Falls. N. R. Kimes Plumbing and Heating Co., 2270 S. 6th St., $14,329; G. C. Motley & Associates, 812 Klamath Ave., $16,487; Friesen-Welman Co., 1715 Main St., $16,900. Of Klamath Falls. ZZ 7-16. Previous report 7-1

● **COURTHOUSE ADDITION— Coquille, Ore.**

Bids will be opened 10 a.m., August 6, in office of R. D. Kennedy, architect, 1220 S.W. Stark St., Portland, for constructing a three-story, 50'x100' addition to the Coos County Courthouse, Coquille. Plans with architect.

Building will be reinforced concrete on concrete slab with pan construction for upper floors and roof; built-up roof; steel sash; architectural concrete exterior finish; 2" solid masonry and 2" plaster partitions; asphalt and ceramic tile floors; acoustical tile ceilings.

Ground floor will include health and sanitary department offices, general meeting room, lunchroom with kitchen. First floor will have district court facilities, including courtroom, judge's chambers, jury rooms, conference room for attorneys and juvenile department. Top floor will include circuit court with same facilities as district court, and a law library. LC 7-9

★ **BUS GARAGE ALTERATIONS— Gresham, Ore.**

Award to Mason & Robinson, 2004 N.E. 137th Ave., Portland, $9,990, by Union High School District No. U-2-20Jt, Gresham Union High School, Gresham, for alterations to the bus garage at the school. Plans with superintendent's office, 1300 N. Main St., Gresham. Four bids received July 8. 2ND LOW: John B. McLeod, 2224 S.E. 24th Ave., Portland, $10,300. HI: R. Hasselman, Rt. 3, Box 468, Gresham, $12,600.

CG 7-11. Previous report 6-25

▲ **SCHOOL ADDITION— Medford, Ore.**

Three bids received by School District No. 549-C, Jackson County, School Administration Bldg., 500 Monroe St., Medford, for additions and remodeling at Medford High School. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. Bids opened July 11. BIDS: Salter & Klien, Box 145, Rogue River, $356,770; H. Barnhart, Box 68, Medford, $389,325; Myers D. Jones, Box 161, Medford, $414,500. CG 7-15. Previous report 7-2

▲ **SCHOOL ADDITIONS—Mt. Vernon, Ore.**

Three bids received by School District No. 6, Grant County, Wilma Bauer, clerk, Mt. Vernon, for construction of concrete block addition to the grade school building at Mt. Vernon. Plans with Frank H. Kendall, architect, 1132 S.W. 13th Ave., Portland. Bids opened July 7. TWO LOW BIDS: Zickler Constrution Co., John Day, $31,607; Wallace Green, 811 Tamarack St., Hermiston. HI BID: Riverman & Sons, 1230 N.E. 63rd Ave., Portland, $32,495.

CG 7-11. Previous report 6-25

● **SCHOOL— North Bend, Ore.**

Bids will be opened for the second time 7:30 p.m., July 28, by Coos County School District No. 26C, North Bend, for constructing the Sunny Hill classroom building in North Bend. Plans call for a one-story, 2,912 sq. ft. structure, containing two classrooms, two toilet rooms, a supply room and vestibule. Plans revised to eliminate some unit ventilators and electrical work in existing classrooms. Plans with Robert F. Fisher, architect, 422 Hall Bldg., Coos Bay. $25 deposit. Bids were previously opened June 9 but were rejected.

Light-weight concrete block on concrete slab; glued laminated beams will support insulated frame roof with gravel roofing and plywood roof sheathing; wood doors and sash; double plastic skylights; asphalt tile flooring; acoustical tile ceiling.

LC 7-11. Previous report 6-24

★ **CHURCH— Oswego, Ore.**

Award to Teeples & Thatcher, 8850 S.E. Otty Road, Portland, $74,720, for construction of 85'x157' wood frame Lake Oswego Congregational Church on northwest corner of Country Club Road and Knaus Road. John W. Foster, architect, 510 S.W. 3rd Ave., Portland. CG 7-12. Previous report 7-8

MEDICAL-DENTAL CLINIC—Portland, Ore.
(Estimated cost $55,000)

Plans announced for construction of a 88'x56' medical-dental clinic at 7636 S.E. Division St., Portland, for Vincent Raschio, owner and builder, 7231 S.E. Clay St., Portland. Plans by Knight & Piercy, designers, 2735 N.E. Broadway, Portland. LC 7-8

★ **SCHOOL IMPROVEMENTS— Portland, Ore.**

Award to Russell E. Heider, 7040 N. Portsmouth St., Portland, $11,285, with alternates ($11,342 basic bid), by School District No. 38, Multnomah County, Mrs. Hester Huber, clerk, Holbrook School, four mi. northwest of Portland city limits on Columbia River Highway, for various improvements to the school. Plans with McCoy & Bradbury, architects, 7007 Highway 99, Vancouver, Wash. Four bids were received July 8. 2ND LOW BID: Larry O. Collins, 7017 Highway 99 North, Vancouver, $11,289 Basic. HI BID: Adolfo C. Bardi, 8105 S.E. Duke St., Portland, $17,174 Basic.

CG 7-11. Previous report 7-1

★ **DENTAL CLINIC— Portland, Ore.**

Award to Wilson & Dean Construction Co., 1016 N.E. 61st Ave., Portland, $35,989, (lowest of six bids) for construction of one-story with basement dental clinic to be known as the Southworth Dental clinic being built on the southeast corner of N.E. 33rd Ave. and Hancock St., Portland. Plans by Dougan & Heims, architects, 401 Royal Building, Portland. 2ND LOW: Beebe Construction Co., 2134 N. Flint Ave., Portland, $36,666. HI: Robertson, Hay & Wallace, 1801 S.E. Grand Ave., Portland. CG 7-11

●SCHOOL REMODELING— Portland, Ore.

Bids will be opened 8 p.m., July 21, by Board of Directors, Columbia School, School District No. 2, E. V. Struznik, Clerk, Multnomah County, Columbia School Building, 716 N.E. Marine Drive, Portland, for remodeling the teachers' rest room and conference room at the school, including moving partitions, installing linoleum, plumbing and insulation work. Plans with Edmundsen & Kochendoerfer, architects, and R. Evan Kennedy, engineer, 325 Henry Bldg., Portland. CG 7-11

★DAIRY PLANT ADDITIONS— Portland, Ore.

Award to Paul B. Emerick, 4540 S.E. 174th Ave., Portland, $1,365,000, by Dairy Co-operative Association, Will M. Henry, general manager, 2700 S.E. 6th Ave., Portland, for constructing four steel frame additions, totaling approximately 85,000 sq. ft. to the company plant at above address. Architect: Day W. Hilborn, 307 E. 10th St., Vancouver. Bids opened July 10. 2ND LOW BID: George A. Moore & Associates, 923 S.W. 17th Ave., Portland, $1,377,900. HI: Hebb and Narodick Construction Co., Inc., 4225 23rd W., Seattle, $1,490,000. Architect's estimate, $1,375,501.

WB 7-11. Previous report 7-2

●BRANCH LIBRARY— Portland, Ore.

Bids will be opened 3 p.m., July 31, in the office of Stewart & Richardson, architects, 219 S.W. Stark St., Portland, for construction of an 8,000 sq. ft. reinforced concrete Hollywood branch library building at 3930 N.E. Hancock St. to replace the existing Rose City Park Library on the same site. $25 deposit.

Building will include main reading room, work room, toilet facilities and heating room; exterior of terrazzo, mosaic tile and glass; aluminum sash, aluminum roof, glue-laminated beams; vinyl asbestos flooring; plastered walls; acoustical tile ceilings; fluorescent lighting; perimeter type heating and ventilating system. Cabinet work is to be under separate contract later.

CG 7-12. Previous report 3-5

●BUILDING REMODELING— Portland, Ore.

Bids will be opened 2 p.m., July 31, by Oregon State Board of Higher Education at Room 101, Old Main Building, Portland State College, 1620 S.W. Park Ave., Portland, for remodeling of the Old Main Building at Portland State College for science and shop purposes and for classrooms. Area involved currently used for dining room, kitchen, bookstore and faculty dining rooms. Plans with Wick & Hilgers, architects, 909 Portland Trust Bldg., Portland. Certified check or 10% bid bond.

Plans call for patching and repairing existing interiors as well as installing new concrete block walls; solid plaster partitions; asphalt tile flooring; acoustical tile ceilings; metal door frames with wood doors. Tables equipped with electrical, gas and water service and lead-lined sinks are to be installed in chemistry laboratories. CG 7-12

★WELDING SHOP— Portland, Ore.

Award to Serge R. Perrin, 405 Ogden Drive, Oregon City, $49,877, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for construction of rigid steel frame welding and blacksmith shop building and appurtenances at U.S. Government Moorings, 8010 N.W. St. Helens Road, Portland; CIVENG-35-026-58-212.

CG 7-12. Previous report 7-5

PRESBYTERIAN CHURCH (Sub-bids)— Salem, Ore.

Sub-bids to be taken as job progresses by Erwin Betterman, general contractor, 147 N. Commercial, Salem, for constructing a one and two-story with full basement, 48,500 sq. ft., First Presbyterian Church building on N. Winter and Chemeketa streets in Salem. Plans were prepared by James C. Mackenzie, architect, New York, and James L. Payne, associate architect, 725 S. Commercial, Salem. Structural engineer: Harry Woelber, 1030 N.E. 31st, Portland. Mechanical and electrical engineer: Cornell, Howland, Hayes & Merryfield, 1600 Western Ave., Corvallis.

Existing sanctuary will be moved and new educational wing (two stories and basement), offices and chapel (one story and basement) built on present site. Off-street parking will be provided. Completion time July, 1959. LB 7-10. Previous report 11-9

●RENOVATE CLASSROOMS—Salem, Ore.
(Estimated cost $4,000)

Bids will be opened at 3 p.m., July 31, by the Salem Public School District, office of Business Manager, 1309 Ferry St., Salem, for furnishing and installing 13,836 sq. ft. acoustical tile at Engelwood, Highland, McKinley, Pringle and Richmond grade schools; all over plaster at North Senior High; wood strips over existing ½" wallboard at North Senior High library. Completion date, August 29. CP 7-15

■RESIDENCE— Salem, Ore.

Planholders announced for construction of three-bedroom, no basement wood frame residence at Oregon State Correctional Institution, near Salem. Bids will be opened 9:30 a.m., July 23, by Oregon Board of Control, William C. Ryan, secretary, Capitol Bldg., Salem. Plans with Annand, Boone & Lei, 1530 S.W. Taylor St., Portland, $25 deposit. $245 deposit previously reported incorrect.

Planholders: Herbert Dalke, 422 College Dr.; E. E. Batterman, 147 N. Commercial St.; Wayne Barham, 809 N. Cottage St.; C. A. Lantz, 1053 Commercial; Johnston Construction Co., 260 Luther St. S. Of Salem. CG 7-16. Previous report 7-8

▲SHOPPING CENTER— Sandy, Ore.

Bids opened and held under advisement by owner at Barker's Drug Store, Sandy, for construction of 5,000 sq. ft., tilt-up concrete first unit of shopping center in block bounded by Strauss and Shelly Avenues, Main St., and Mt. Hood Loop Highway. Architect, Kendall & West, 1132 S.W. 13th Ave., Portland, advised results should be known in about one week. Bids opened July 9. CG 7-12. Previous report 7-2

MAUSOLEUM— The Dalles, Ore.

Construction started by J. C. Milne Construction Co., general contractors, 01350 S. W. Carey Lane, Portland, for $26,900, on a 20' wide and 90' long, concrete mausoleum at the IOOF cemetery in The Dalles. Bids were called by Odd Fellows Lodge, 421½ E. 2nd, The Dalles. Architect: Joseph W. Heiler, 2014 N.E. Sandy Blvd., Portland. Height of building will accommodate five crypts, with pink Italian marble front. Site work, grading and excavation work being done by Elton Construction Co., Route 3, The Dalles. LC 7-9

▲TIRE SHOP— The Dalles, Ore.

Five bids received for construction of a one-story, concrete block Royal Tire Center at 2nd and Jefferson streets, The Dalles. Plans with Boyd Jossy, architect, 12730 S.E. McLoughlin Blvd., Portland. Bids opened July 8. TWO LOW BIDS: Bridge & Lahti, 2938 S.W. 74th Ave., Portland, $19,950; Mid-State Construction Co., 810 Union St., The Dalles, $22,000. HI: Elliott Construction, The Dalles, $35,006.

CG 7-11. Previous report 7-1

WASHINGTON

COMMUNITY HOSPITAL (Excavation)— Aberdeen, Wash.

Excavation started by Cawdrey & Vemo, Inc., 3601 Fremont Ave., Seattle, for construction of the Grays Harbor Community Hospital on Swietzer Hill, 6th and Saturday Way, Aberdeen. Clearing of the site, east of Oak St., west of Duffy St. and north of Cherry, was completed earlier this year. Architect: John W. Maloney, 754 Central Bldg., Seattle. Completion time for the hospital, 455 days.

LC 7-16. Previous report 6-21

▲PORT WAREHOUSE— Anacortes, Wash.

Eleven bids received by Port of Anacortes, Anacortes, for constructing 210'x110' warehouse. Bids opened July 10. Plans by Hovind, Harthorne & Smith, architects, 1[illegible] Westlake Ave. N., Seattle. LOW BID: Hebb & Narodick Construction Co., 4225 23rd W., $120,950. OTHER BIDS: Nelson Construction Co., Box 514, Ferndale, $12[illegible] 931; Wick Construction Co., 720 [illegible] 35th, $123,950; W. G. Clark Construction Co., 408 Aurora, $131,540; Elford Construction Co., 1750 State, Bellingham, $134,[illegible] Anderson-Bustad, Route 2, Mount Vernon, $134,980; Del Guzzi Construction Co., Box 591, Port Angeles, $138,041; Walker & Prudence, 319 Champion, Bellingham, $140,[illegible] H. Halvorson, Inc., 20054 Pacific Highway S., $142,817; Pearson Construction Co., Box 4[illegible] Bellingham, $143,680; M & O Construction Co., 5812 S. Adams, Tacoma, $143,768. Of Seattle except as noted.

PD 7-12. Previous report 7-[illegible]

★BUILDING REMODELING— Anacortes, Wash.

Award to Anderson & Bustad, Inc., [illegible] Riverside, Mount Vernon, $72,500, by Paul Burton and Clarence Loan, owners, Empress Theater Bldg., for modernization of existing threater building. Architect: Don McKee, 915 5th, Anacortes.

RG 7-15. Previous report 6-[illegible]

●REWIRING SCHOOL— Auburn, Wash.

Bids will be received until 2 p.m., August 1, by Auburn School District No. 408, H. C. Jones, secretary, 9420 S. 240th Place, Auburn, in superintendent's office, for rewiring of Cascade Junior High School, 711 E. Main, Auburn. Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. Certified check, cashier's check, bid bond, 5%.

PD 7-[illegible]

APARTMENT— Bellevue, Wash.
(Estimated cost $300,000)

Construction will begin about August 1 by Charles J. Epping, Route 3, Snohomish, contractor and one of the owners, on a 40-unit apartment building on 100th N.E. and N.E. 1st, Bellevue. Plans by Lawrence & Hazen, architects, 8626 Roosevelt Way, Seattle. Plans include a swimming pool and barbecue. PD 7-8. Previous report 6-[illegible]

★BELLEVUE CONGREGATIONAL CHURCH— Bellevue, Wash.

Awards announced by Bellevue Congregational Church, 8th Ave. and 108th N.E., Bellevue, for construction of two-story, 110'x73' sanctuary to be attached to existing church structure. Plans by Lindahl & Bacon, architects, 20 102nd N.E., Bellevue. AWARDS—GENERAL: A. W. Robertson, 9529 N.E. Lake Washington Blvd., Bellevue, $202,861. MECHANICAL: Bellevue Plumbing and Heating Co., 10149 Main St., Bellevue, $49,600. ELECTRICAL: Beckstrom Electric, Inc., 14056 Bothell Way, Seattle, $19,644. LB 7-12. Previous report 7-[illegible]

▲CONSTRUCT ROOF— Bellingham, Wash.

Bids taken under advisement by Whatcom County Commissioners, Courthouse, Bellingham, for construction of new roof on the courthouse in Bellingham. Bids opened July 8. ONLY BIDS: Bellingham Roofing Co., 209 E. Champion, Bellingham, $8,900; Western Roofing Co., 1001 W. Illinois, Bellingham, $10,211. ET 7-[illegible]

●SCIENCE BUILDING—Bellingham, Wash.
(Estimated cost $2,300,000)

Bids will be called September 4, subject to approval by faculty science committee, by Western Washington College of Education, Bellingham, for construction of the 142'x241', reinforced concrete three-story plus partial fourth floor, science building to be located behind the college library at High St. and Campus Drive in Bellingham. Separate contracts will be bid for general, mechanical, electrical work, and for movable lavatory equipment and furniture. Above the fourth floor will be a penthouse and walking deck for class work, and a mounting deck for instruments. Building will include general sciences rooms, classrooms, laboratories and faculty offices. Plans by Paul Thiry, architect, 800 Columbia, Seattle.

Flat roof, built-up roofing over rigid insulation; columns and pan joist system;

Mosai exterior; aluminum awning type windows; louvres on east and west exposures; concrete interior walls, and plaster partitions over steel studs; concrete floors; suspended ceilings; steam heating from central system, convectors, unit heaters, central ventilating system. Fixed laboratory equipment included in general contract. Plans include mechanical rooms on first and fourth floors, two greenhouses on roof, plant room on third floor, science library and museum, planetarium, aquarium, a seismograph, and four tiered lecture rooms with 75-100 capacity each.
LC 7-16. Previous report 6-20

★**HOME ECONOMICS ROOM REMODELING—** **Bellingham, Wash.**

Award to Emil Olsen, 2305 South St., Bellingham, $17,795, by Bellingham School District No. 501, Gordon Carter, superintendent, Roeder School, Bellingham, for remodeling home economics room at Bellingham High School. Plans by Richard Stradling, architect, Herald Bldg., Bellingham. Construction is already underway.
PD 7-16. Previous report 6-17

●**SENIOR HIGH SCHOOL ADDITIONS—** **Bothell, Wash.**

Bids will be opened 2 p.m., August 4, by Bothell School District No. 46, Box 128, Bothell, in Home Economics room next to superintendent's office, for construction of a three-building, 23,814 sq. ft. addition to existing Senior High School, in Bothell. Plans with Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. $50 deposit. Separate contracts for general, mechanical and electrical work. The addition will include two classroom buildings, and a shop building, connected by covered walkways.

Class A construction; flat built-up roof, rigid insulation in roof; tilt-up concrete walls; pre-stressed concrete beams; steel sash; stud and cement-asbestos board partitions; vinyl asbestos flooring; plastic skylights; suspended plastic ceilings; connection with existing hot water heating system; asphaltic concrete surfaced courts; some graveled parking area.
PD 7-16. Previous report 7-9

▲**BARRACKS DEMOLITION—** **Bremerton, Wash.**

Bids received by 13th Naval District, room 107B, Bldg. 250, U.S. Naval Station, Seattle, for demolition and/or removal of two-story frame buildings, barracks bldg. 522, 521 and east Wing, Bldg. 520 at Puget Sound Naval Base, Bremerton; Spec. No. 18318/58.

Three bids received at July 11 bid opening. Fred Torlakson, 2519 E. Union, $6,800 (item No. 2, representing amount to be paid to contractor); Matheny & Bacon, Inc., 4405 Union Bay Place, $7,667; Louis B. Hostak, 10644 2nd S.W., $8,450. Of Seattle. Government estimate, $15,467.
PD 7-12. Previous report 6-27

★**ARMORY ADDITION—** **Camas, Wash.**

Award to Kasper & Holmberg Construction Co., 2905-A E. 16th St., Vancouver, $79,178, by Clyde J. Fenn, Jr., supervising engineer, Department of General Administration, 218 General Administration Bldg., Olympia, for constructing addition to the Washington National Guard armory at Camas.
PD 7-16. Previous report 6-6

★**BUS SHED ADDITION—** **Carson, Wash.**

Award to Dean Wright, 304 Montello St., Hood River, $37,731, by School District No. 30, Skamania County, Emelia E. Robinson, clerk, Carson Grade School, Carson, for construction of a bus shed addition. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. Bids opened July 1. LB 7-15. Previous report 6-17

★**NURSING HOME—** **Clarkston, Wash.**

Awards announced by Clarkston Rest-Haven, Inc., Clarkston, for construction of a nursing home. Bids opened June 30. Plans by Putnam & Dimke, architects, 412 6th, Clarkston. AWARDS—GENERAL: Cassell Builders, 1301 Main, Clarkston, $78,484. MECHANICAL: Lewiston Plumbing & Heating, 0208 5th, Lewiston, $11,180. ELECTRICAL: Webster Electric, 1203 3rd, Lewiston, Idaho, $8,128. LB 7-11. Previous report 7-3

VISITOR'S FACILITIES— **Columbia River, Wash.**

Bids will be called about July 18 for opening about August 14 by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for construction of 350 sq. ft. concrete masonry comfort station, with concrete footings and floor, five-ply built-up roofing; installing plumbing and electrical work including transformer, electric water heater, and electric unit heaters; installing water service, 1,200' in gallery of dam and 200' underground; installing underground electrical service; installing sewer line, septic tank, and drain field; construct concrete walks and flagpole pedestal and erect flagpole; install lawn sprinkler system with pump; fill, topsoil, fertilize and seed about one-half acre.
LB 7-15

▲**VOCATIONAL SHOP BUILDING—** **Darrington, Wash.**

Bids received by Darrington School District No. 30, Winnie Bagley, clerk, Darrington, for constructing a 110'x44' concrete block vocational shop building at Darrington. Plans with Harold W. Hall, architect, Commerce Bldg., Everett. Bids opened June 30. LOW BID—GENERAL: Frank Damson, Route 2, Everett, $39,777. MECHANICAL: Lent's, Inc., 279 4th, Bremerton, $22,254.
LC 7-12. Previous report 6-13

▲**FIRST BAPTIST CHURCH—Everett, Wash.**

Newland Construction Co., Box 230, Everett, was apparent low bidder at July 2 bid opening, for construction of a 194'x119', irregular-shaped church at Pacific and Wetmore avenues, Everett, for First Baptist Church, Lombard and Hewitt avenues, Everett. Six bids were received, (no figures available) and are being held for further study. Carlton B. Goodwin is pastor. Plans

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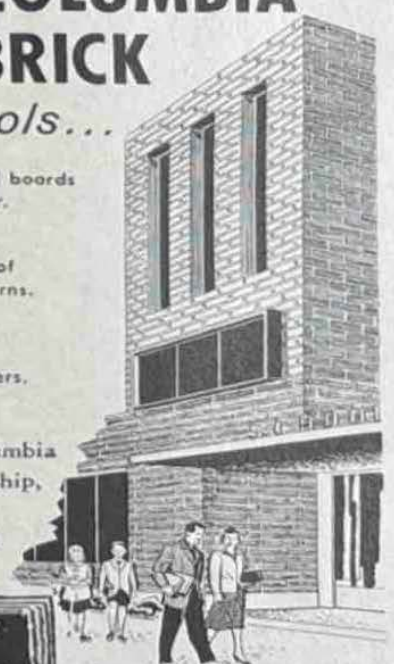

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Board of Trade Building, Chicago 4, Illinois

by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.
PD 7-12. Previous report 6-21

★**EQUIPMENT STORAGE GARAGE—** **Everett, Wash.**

Award to Newland Construction Co., 3302 Hill, Everett, $11,270, by John L. Sugars, city clerk, City Hall, Everett, for constructing equipment storage garage for the city. Plans by Botesch & Brown, architects, Commerce Bldg., Everett. Bids opened June 25.
LB 7-15. Previous report 6-27

★**KITCHEN REMODELING—Everett, Wash.**

Award to Sanford Wright, 2929½ Wetmore Ave., Everett, $15,895, by Everett School District No. 2, Oscar N. Johnson, secretary, Auditorium Bldg., Everett, for kitchen remodeling at Washington Elementary School, 1715 Rockefeller, Everett. Plans by Bryant, Butterfield & Aehle, architects, Sager Bldg., Everett.
PD 7-16. Previous report 6-4

BANK— **Ferndale, Wash.**

Bids will be called later this month by First National Bank of Ferndale, M. F. Hastings, president, Ferndale, for a one-story and daylight basement, 5,000 sq. ft. bank building to be constructed on Main St. between 2nd and 3rd streets in Ferndale. Plans underway by Green-Sibold & Associates, architects, White-Henry-Stuart Bldg., Seattle. Work expected to start in August.
ET 7-8. Previous report 3-1

★**BORDER STATION ALTERATIONS—** **Ferry, Wash.**

Award to Claude Gann, Okanogan, $19,998, by General Services Administration, 126 Federal Office Bldg., Seattle, for alterations and repairs to the U.S. Border Station, Ferry; Proj. SEA-832.
LB 7-16. Previous report 6-26

●**REPAIR ROOFS—** **Geiger AFB, Wash.**

Bids will be opened 1 p.m., August 12, by U. S. Air Force, procurement office, Geiger AFB, for repairing roofs on Bldgs. 105, 204, 207 and 205, vicinity of Colville, Geiger Air Force Base; IFB 45-614-59-7. Plans with above office.

Work includes removing present roofing and roofing insulation on the four buildings; installing new insulation and five ply built-up coal tar roof with slag, or gravel surfacing.
LL 7-15

●**REMODEL CAFETERIA—** **Geiger AFB, Wash.**

Bids will be opened 1 p.m., August 8, by U. S. Air Force, procurement office, Geiger AFB, for remodeling Bldg. No. 515, BX Cafeteria at Geiger Air Force Base; IFB 45-614-59-2. Plans with above office. LL 7-15

●**REPAIR BUILDINGS—** **Geiger AFB, Wash.**

Bids will be opened 2 p.m., August 8, by U. S. Air Force, procurement office, Geiger AFB, for repair of exteriors of six buildings, Geiger Air Force Base; IFB 45-614-59-3. Plans with above office.

Description: exterior walls to be covered with 30" felt, then asbestos shingles; aluminum on all corners; existing wooden skirting to be covered with ¼" asbestos Flexboard and eight vents installed; two wooden attic vents repaired with aluminum; existing wooden fire escape platform and ladder replaced by aluminum type; all soffit to be enclosed with ¼" asbestos Flex-board; aluminum drip caps placed over all windows, doors; aluminum flashing over existing facia and between wall and roof of bottom floor roof overhang; paint exposed wood surfaces to include screens and windows; install new aluminum fixtures; replace three exterior lights; calk all areas; install pre-cast steps. LL 7-15

●**GUEST HOUSE—** **Geiger AFB, Wash.**

Bids will be opened 2 p.m., August 7, by U. S. Air Force procurement office, Geiger AFB, for remodeling Bldg. No. 306 into four units one 3-bedroom and three two-bedroom), and new entrance to building for a guest house, Geiger Air Force Base; IFB 45-614-59-4. Plans with above office.

●**REPAIR BUILDING—** **Geiger AFB, Wash.**

Bids will be opened 1 p.m., August 7, by U. S. Air Force, procurement office, Geiger AFB, for repairing Bldg. No. 609 consisting of carpentry, plumbing, wall covering, floor underlayment, tile floors, electrical work and painting at Geiger Air Force Base; IFB 45-614-59-5. Plans with above office.
LL 7-15

MECHANICAL REPAIR— **Geiger AFB, Wash.**

Bids will be opened 1 p.m., August 6, by U. S. Air Force, procurement office, Geiger AFB, for mechanical repair of Bldg. 306 at Geiger Air Force Base; IFB 45-614-59-6. Plans with above office. LL 7-15

▲**UTILITIES—Geiger Air Force Base, Wash.**

Apparent low bidder is James Smyth Plumbing & Heating, N. 216 Division, Spokane, $237,763, for constructing off-site utilities for a housing project at Geiger Air Force Base, near Spokane; Inv. No. 58-125. Other figures not available. Bids opened by U. S. Air Force, procurement office, Geiger AFB.
LC 7-16

●**METHODIST CHURCH— Kahlotus, Wash.**

Bids will be opened 8 p.m., July 30, by Community Methodist Church, building committee, Kahlotus, for construction of 29,000 sq. ft. one-story, frame addition and remodeling to the present building. Plans with Eddy, Carlson & James, 1205 N. Washington, Spokane.

Addition will have some brick veneer; concrete slab - on - grade; asphalt shingles; aluminum sash; acoustical tile; vinyl asbestos tile; mahogany millwork; electric radiant heat.
LL 7-15

●**LODGE TEMPLE—** **Kelso, Wash.**
(Estimated cost $200,000)

Bids will be opened 7:30 p.m., July 23, by B.P.O.E. No. 1482, George Secord, executive secretary, Elks Bldg., Kelso, for construction of an 18,720 sq. ft. concrete tile lodge building on the site of Kelso Elks Golf Course, Pacific Highway S., Kelso. Plans with Robert E. Newhall, architect, 1417 15th, Longview. Don Kramer, 317 E. 15th, Olympia, structural engineer; Keith Krucheck, 501 Royal Bldg., Portland, Ore., mechanical engineer; Dean Athey, 4322 N.E. 64th, Portland, Ore., electrical engineer.

The building will have brick facing and glued laminated beams. Included will be lodge and dining room, club rooms, lounge, dance floor, lockers and showers, kitchen facilities and offices. Construction is scheduled to start this summer.
PD 7-16. Previous report 2-15

★**ELEMENTARY SCHOOL—** **Littlerock, Wash.**

Award to A. G. Homman, Box 38, Lacey, $11,125, by Littlerock School District No. 332, Littlerock School Bldg., Littlerock, for constructing classroom addition to the elementary school. Plans by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma. Bids opened July 2.
LB 7-15. Previous report 6-25

★**LATRINE, KITCHEN AREA REPAIRS— Mica Peak, Wash.**

Award to Bording & Cook Construction Co., Inc., 14103 E. Broadway, Spokane, $3,715, by U.S. Air Force Procurement Office, Geiger Field, for repairing latrine and kitchen areas at Mica Peak; Inv. No. 58-132.
RM 7-16

CHURCH— **Montesano, Wash.**
(Estimated cost $55,000)

Construction is underway on a 37'x74' sanctuary and a 46'x62' Sunday School wing which will represent the first unit of a new First Presbyterian church plant in Montesano, located on a three-acre site in the northern section of the city, south of McBride Ave. Plans by Rolland Denny Lamping, architect, 1314 E. John St., Seattle. Eldon Kilmer is building committee chairman.
PD 7-12. Previous report 1-30

RETAIL BUILDING— Moses Lake, Wash.
(Estimated cost $100,000)

Construction underway by Fairbanks Construction Co., 308 Gumwood, Moses Lake, on a one-story, 12,000 sq. ft. retail building, known as the Herman Bldg., to house men's and boys' clothing firm, dress shop and drug store, at the intersection of Division and Third, Moses Lake, for Phil Herman, owner, Warden. Completion scheduled for November 1.
LC 7-11

MOUNTLAKE TERRACE ELEMENTARY SCHOOL— Mountlake Terrace, Wash.

Bids will be called about the end of August by Edmonds School District No. 15, 4th and Daley, Edmonds, for constructing a 38,000 sq. ft., one-story elementary school at 52nd W. and 220th S.W., Mountlake Terrace. Working drawings are near completion by Waldron & Dietz, 215 8th Ave. N., Seattle.

Flat built-up roof, laminated roof deck, rigid insulation in roof; steel columns; glued laminated beams; concrete-slab-on-grade; pumice block exterior; aluminum sash; plaster, pumice block, clay the finish on stud partitions; fluorescent lighting; oil-fired warm air heating from central boiler; 4,000 sq. ft. asphaltic concrete entrance, parking area. PD 7-15. Previous report 6-11

●**HOUSING—** **Naselle AFS, Wash.**

Bids will be opened 1:30 p.m., August 20, by U.S. Air Force, procurement office, Bldg. 524, McChord AFB, for construction of 27 housing units at Naselle Air Force Station; Inv. 59-2. Plans with McChord office. $50 deposit. Four-bedroom single units will cost $15,000; three-bedroom duplexes $27,000, and three-bedroom fourplexes $46,000.
LC 7-11. Previous report 7-1

▲**P.U.D. BUILDING—** **Newport, Wash.**

Fourteen bids received and subsequently rejected by Pend Oreille County Public Utility District No. 1, Commissioners Room, Courthouse, Newport, for constructing one-story with partial basement, 10,000 sq. ft. building. Plans by McClure & Adkison, architects, Sherwood Bldg., Spokane. Bids opened July 8. BIDS: E. R. Haynes Construction Co., W. 2028 Sinto, $235,000; Johnson-Busboom-Rauh, N. 601 Cedar, $238,940; Warner & Brown, N. 2904 Madelia, $241,237; Hazen & Clark, W. 108 Boone, $242,606; Walter G. Meyers & Sons, N. 1407 Calispel, $243,287; Northwestern Construction Co., Box 1135, $245,466; N. H. Locher, 2201 E. Sprague, $246,758; A.A.A. Construction Co., N. 739, $247,830; Purvis Construction Co., Box 64, Yardley, $248,425; Hansen & Parr, W. 315 Boone, $252,600; Sceva Construction Co., N. 2928 Madelia, $253,810; Walter Varnum, Box 983, Coeur d'Alene, $254,712; R. Halvorson, Inc., Box 6, Yardley, $255,502; Peter J. Young & Sons, E. 1211 Columbia, $260,000. Engineer's estimate $180,000. All of Spokane unless noted.
LC 7-11. Previous report 7-1

●**JUNIOR HIGH SCHOOL—** **Opportunity, Wash.**

Bids will be opened 4 p.m., P.S.T., July 29, by Central Valley School District No. 356, N. 607 Pines Road, Opportunity, for construction of 62,148 sq. ft. frame and masonry Bowdish Junior High School. Separate bids for general, electrical and mechanical. Plans with Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. $40 deposit for general; $25 deposit for mechanical and electrical. Certfied check, cashier's check or bid bond 5%.

Building will consist of 22 teaching stations, including 18 general classrooms, arts and crafts room, science classroom, two home economics classrooms, a general shop mechanical drawing room and two music units, gymnasium, locker and shower rooms, a multi-purpose room, library unit, office unit, kitchen, health room, teacher's room, workroom, two conference rooms; six toilet rooms, heating plants and storage space.

Roof framing utilizing laminated beams, wood decking; aluminum sash, alt. for steel; concrete slab-on-grade floors, asphalt tile finished; concrete block interior partitions; acoustical tile ceilings; gas-fired, low-pressure heating; incandescent lighting.
LB 7-11

★**LAVATORIES—** **Pasco, Wash.**

Award to John Garrison, RD 64, Pasco.

$3,550, by City Council, City Hall, Pasco, for lavatories for Yacht Basin Park.
LB 7-11. Previous report 4-10

★**BUILDING ALTERATIONS—** **Poulsbo, Wash.**

Award to Commercial Builders, 1114 Shore Drive, Bremerton, $2,470, by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for building alterations, leased facility, Poulsbo; ENG-45-108-58-187.
LB 7-8. Previous report 6-27

▲**FURNISH GAS CONVERSION UNIT—** **Pullman, Wash.**

Three bids received at July 1 bid opening by City Council, City Hall, Pullman, for furnishing and installing gas conversion unit in the boiler of the City Hall, Pullman. BIDS: Treaster Plumbing and Heating Co., 911 Grand, Pullman, $1,256; Standifur Refrigeration and Heating Co., 916 Grand, Pullman, $1,299; Pullman Heating and Sheet Metal, 301 Paradise, $1,495. Of Pullman.
MH 7-8. Previous report 6-25

★**MASONRY REPAIRS—** **Pullman, Wash.**

Award to Pioneer Masonry Restoration Co., 707 N. 65th, Seattle, $19,902, by Board of Regents, Washington State College, 303 Administration Bldg., Pullman, for brick-pointing, roofline water proofing and masonry repairs to exteriors of ten WSC buildings. Completion time October 30.
MH 7-12. Previous report 7-8

▲**INSTALL SEATS—** **Pullman, Wash.**

Bids received by Board of Regents, Washington State College, 313 Administration Bldg., Pullman, for furnishing and installing 802 seats in Bryan hall at the college. LOW BIDS: Lowman & Hanford Co., 1515 2nd, Seattle, $15,745; Frank D. Cohan, Inc., 1929 S.W. 6th Ave., Portland, $16,170; Modern Theater Supply Co., Inc., 2400 3rd St., Seattle, $16,224.
MH 7-12

▲**CHIMNEY RECONDITIONING—** **Pullman, Wash.**

Two bids received July 11 by Board of Regents, Washington State College, 303 Administration Bldg., campus, Carl Pettibone, business manager, for repairing, reconditioning and waterproofing the 125' heating plant chimney at the college. LOW: Boecdecker Chimney Construction Co., 3306 N. 25th, Tacoma, $2,767.20. Only other bid: Chimney Repair Service, 1441 Grelle Ave., Lewiston, Ida., $3,287.
MH 7-15. Previous report 7-8

●**HOSPITAL—** **Quincy, Wash.**

Bids will be opened 2 p.m., July 30, by Grant County Hospital District No. 2, Thelma Coates, secretary, Quincy, for construction of a poured concrete hospital building with hot water heating, concrete flooring. Architects: Whitehouse, Price & DeNeff and E. J. Deeble, associate, Hutton Bldg., Spokane.
RG 7-15. Previous report 5-27

●**DOOR MONITORING, ALARM SYSTEM—** **Richland, Wash.**

Bids will be opened August 7 by Atomic Energy Commission, Box 550, Richland, for completion of design, fabrication, installation and connection of a door monitoring and alarm system for a plutonium fabrication pilot plant facility in the 300 area at Hanford Works, Richland. Specifications with above office. Completion time 365 days.

Work includes installing door switches, main terminal panel, main relay panel, local monitor panel, and all wiring required for the system. Related work involves installing main control, alarm, monitor panel main and secondary power supply for the system in building 3706.
RM 7-12

●**VAPOR WASTE FACILITIES—** **Richland, Wash.**

Bids will be opened August 14 by Atomic Energy Commission, Box 550, Richland, for additional facilities to handle tank farm vapor wastes in a chemical separations area at Richland. Specifications with above office. Completion time 250 days.

Project includes three concrete structures: (1) a condenser building consisting of three sections, to include an operating gallery, condenser cells, and hot pipe gallery. (2) a retention tank structure to consist of circular lower section and rectangular upper pump enclosure. (3) Approximately 200' of concrete encasement, 6½' wide by 8' high, for piping.

A single story steel frame building addition, 17'x20' by 10' high, will have insulated metal wall panels, steel roof deck, concrete floor. Other work items are electrical installations and painting.
RM 7-12

BOWLING ALLEY— **Seattle, Wash.**

Working drawings are to be completed the latter part of July by Alfred F. Simonson, architect, 11728 Aurora Ave., Seattle, for the 32-lane, 30,000 sq. ft. Sea-Vue bowling alley at northwest corner of Seaview Ave. and 32nd Ave. N.W., Seattle, for Rueben Lovgren, owner. Puget Construction Co., Inc., 1811 Bush Place, Seattle, are contractors.

Steel trusses, tilt-up concrete walls; brick trim; built-up roof; aluminum sash; vinyl flooring; hung acoustical plaster ceilings; ⅝" plasterboard partitions; gas-fired warm air heating. Plans include a nursery and play yard.
PD 7-8. Previous report 10-8

CHURCH— **Seattle, Wash.**

Construction is underway by volunteer members of Church of God, under supervision of George Hamner, on a one-story, 96'x86' multi-purpose building which will be the first unit of a possible three-building church plant at 18435 42nd S., Seattle. L. T. Flynt is pastor. The structure will serve as a church, with a four-classroom school, nursery, kitchen, storage facilities, restrooms. Future construction will include a chapel and a sanctuary.
PD 7-9

APARTMENT— **Seattle, Wash.**

Bids will be called in September by Marie Baines, owner, for construction of a 12-unit, three-story, partial basement, 13,500 sq. ft. apartment building in 500 block on Belmont N., Seattle. Working drawings are underway by McCool, Morgan & Associates, architects, 110 Eastlake Ave., Seattle.

Wood frame; brick anodized aluminum paneling exterior; flat built-up roof, batt insulation in roof; aluminum sash; drywall partitions; vinyl tile, ceramic tile, carpeting; sliding aluminum access doors; birch cabinets; Formica counter tops; electric baseboard heating; covered deck for seven cars, exterior cement concrete parking area for adidtional seven cars; wood view decks.
PD 7-9. Previous report 6-3

●**WAREHOUSE ADDITION—Seattle, Wash.**

Bids from a select list of bidders will be opened 3 p.m., July 23, by Wright Outboard Marine Co., 4132 Stone Way, Seattle, in office of Decker, Christian - Christenson & Kitchin, architects, 1411 Fourth Avenue Bldg., Seattle, for construction of a two-story, concrete block, 40'x100' warehouse addition to existing building, above address. Plans include concrete slab-on-grade floors, overhead door.

Planholders: Jentoft & Forbes, 927 W. 46th; Riley Pleas, Inc., 522 19th N.; Puget Construction Co., Inc., 1811 Bush Place; Cawdrey & Vemo, Inc., 3601 Fremont; Gwinn Construction Co., 914 Rainier; Baugh Construction Co., 922 Poplar Place. Of Seattle.
PD 7-11

FOUR-PLEX— **Seattle, Wash.**

Construction will soon be underway by Elmer Harman, owner-contractor, on a 2,800 sq. ft. two-story, no basement, four-plex near Alki Beach in West Seattle. Plans by George Bolotin, architect, 915 E. Pine St., Seattle.
PD 7-11. Previous report 11-23-57

■**METHODIST CHURCH ADDITION, REMODELING—** **Seattle, Wash.**
(Estimated cost $75,000)

Planholders announced for construction of a two-story, 5,830 sq. ft. addition to and remodeling of 2,520 sq. ft. of existing church. Bids will be opened 2 p.m., July 22, by Seaview Methodist Church, W. Graham St. and 47th S.W., Seattle. Roy Jenkins is pastor. Plans with Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle. Addition will include social hall, seven classrooms, kitchen and church parlor. Remodeling will include five classrooms.

Planholders: Trojan Builders, 11003 36th S.W.; Riley Pleas, Inc., 522 19th N.; Taylor & Goss, Inc., 2718 Elliott; John Nestor, 19204 Ballinger Road; Puget Construction Co., Inc., 1811 Bush Place; E. F. Shuck Construction Co., 535 Pontius; E. L. Livers, 10318 3rd N.W. Of Seattle.
PD 7-11. Previous report 7-3

APARTMENT— **Seattle, Wash.**

Working drawings are near completion by George Bolotin, architect, 915 E. Pine St., Seattle, for a 25-unit, seven-story, reinforced concrete apartment at Summit and Mercer, Seattle, for E. T. Hinrichs, owner-contractor.

Unit masonry, post and beam construction; flat built-up roof, rigid insulation; architectural concrete and patterned block exterior; aluminum sash; plaster partitions; 8" concrete block weight-bearing partitions; resilient tile flooring, carpeting; wood cabinets; laminated plastic, ceramic tile counter tops; electric heating. Basement parking, an automatic elevator, and a swimming pool are included in plans.
PD 7-11

APARTMENT— **Seattle, Wash.**

Working drawings are near completion by George Bolotin, architect, 915 E. Pine St., Seattle, for a 27-unit, seven-story, reinforced concrete apartment at 13th Ave. and Mercer St., Seattle, for E. T. Hinrichs, owner - contractor. Building will feature one-and-two-bedroom units, and a large penthouse.

Unit masonry, post and beam construction; flat built-up roof, rigid insulation in roof, architectural concrete and patterned block exterior; aluminum sash; plaster partitions; 8" concrete block weight-bearing partitions; resilient tile flooring; carpeting; wood cabinets; laminated plastic, ceramic tile counter tops; hot water baseboard heating; fireplaces in two-bedroom units and in penthouse. A swimming pool, an automatic elevator and basement parking are included in plans.
PD 7-11

★**ADDITION TO RESIDENCE—** **Seattle, Wash.**

Contract negotiated with Tom Paulsen, 905 12th N., Seattle, amount not to exceed $12,800, by John White, owner, for a two-story 1,134 sq. ft. wood frame addition and 500 sq. ft. of remodeling to existing residence at 16026 38th N.E., Seattle. Plans by Paul Hayden Kirk A.I.A. & Associates, architects, 615 Lakeview Blvd., Seattle. Bids were originally opened August 5, subsequently rejected, and opened the second time December 30.
PD 7-12. Previous report 1-2

●**CHURCH ADDITION—** **Seattle, Wash.**

Bids from a select list of bidders will be opened 2 p.m., July 31, by Phinney Ridge Lutheran Church, Olaf Anderson, pastor, 7500 Greenwood, Seattle, in office of Edward Mahlum, architect, Lloyd Bldg., Seattle, for construction of a three-level, 14,000 sq. ft. educational facility addition (16,000 sq. ft. if bay alternate included) to existing church, above address. $50 deposit. One contract. Peter H. Hostmark & Associates, Lloyd Bldg., Seattle, structural engineers; Valentine & Fisher, Lloyd Bldg., Seattle, mechanical engineers; Johnson & Duncan, 233 Eastlake, Seattle, electrical entgineers.

Exterior will be of stone and Zolotone over concrete; aluminum sash (alternate, steel); flat built-up roof, rigid insulation in roof; plaster partitions on metal stud; asphalt tile flooring; electric heating.
PD 7-12. Previous report 7-2

●**PLAYGROUND IMPROVEMENT—** **Seattle, Wash.**

Bids will be opened 11 a.m., July 22, by Seattle School District No. 1, 815 4th Ave. N., Seattle, for improvements to Sand Point Elementary School playground, 6208 60th N.E., Seattle. Plans with purchasing department, above address. Certified check, bid bond, 5%. Basic bid will be for paving of ⅔ of playground, with alternate bid for paving entire playground, and additional alternate bid to include paving of adjacent parking area, approximately 100'x100'.

Quantities given are for paving entire

playground, and pertinent work. 10,000 sq. yd. asphaltic concrete; 1,500' of 6' high chain link fencing; one 12' gate; five catch basins; two basketball units; drainage work; earthwork, involving 6,000 c.y. of grading on site. PD 7-12

★MUSICIANS BUILDING— Seattle, Wash.

Award to Don Williams & Co., 314 Fairview N., Seattle, $101,804 (basic including alts.), by Musicians' Club, Local 76, Chet Ramage, business representative, 309 Cedar St., Seattle, for construction of a one-story and partial basement, 7,000 sq. ft., club building on 3rd Ave. and Cedar, Seattle. Plans by Ibsen A. Nelsen and Russell Sabin, architects, 1314 E. 43rd, Seattle.
LB 7-12. Previous report 7-10

■PARKING APRON— Seattle, Wash.

Planholders announced for reconstruction of parking apron at the U.S. Naval Supply Depot, Seattle; Spec. No. 18317/58. Bids will be opened 2 p.m., P.S.T., July 23, by 13th Naval District, Room 107B, Bldg. 250, U.S. Naval Station, Seattle. Work includes removal of existing lumber in apron above top of piles such as decking, stringers, caps and rebuilding the apron with treated lumber. Decking shall consist of laminated lumber with asphaltic concrete pavement on top.

Planholders: Willar Construction Co., 9709 Greenwood; Wayne Construction Co., Inc., 3810 Stone Way; Ace Construction Co., 7516 Roosevelt Way; Larsen Construction Co., Colman Bldg.; Burfitt Construction Co., 1445 W. 56th; General Construction Co., 3840 Iowa; Manson Construction and Engineering Co., 5209 E. Marginal Way; Koppers Co., Inc., White-Henry Stuart Bldg.; Art Petersen, 9043 40th S.W.; Dale M. Madden, 3010 E. 163rd; Stillwell Construction Co., 919 Horton St.; Butler Construction and Engineering Co., 3419 13th S.W.; Northwest Asphalt Co., 7343 E. Marginal Way. Of Seattle. PD 7-12. Previous report 7-3

MEDICAL CENTER— Seattle, Wash.
(Estimated cost $1,000,000)

Construction will begin this fall by F. H. Sallinen Co., 1001 Broadway, Seattle, contractors, on a 30-suite, 56,000 sq. ft., two-level medical center on the corner of Broadway and E. Madison, Seattle, for 1001 Broadway Corp., Seattle. Plans by Nelson & Seigenthaler, designer-engineers, 3219 E. 123rd, Seattle. Plans include a pharmacy, prosthetics, laboratories, X-ray and physiotherapy facilities.

Masonry walls; brick veneer; pre-cast concrete mosaic panels; flat built-up roof, rigid insulation in roof; aluminum sash, entry doors; drywall partitions; laminated floors, vinyl tile flooring; second floor soundproofed with layer of quiet-tread material; acoustical ceiling in office area; sprinklered, air conditioned; hot water or low pressure steam heating; 38,000 sq. ft. of parking space, inside and outside. Partial razing of existing building, including removal of all existing partitions, is involved. PD 7-5

▲VORTAC FACILITY, BUILDINGS, UTILITIES— Seattle, Wash.

Three bids received and subsequently held under advisement by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif. (Box 45007) for constructing Vortac Facility involving buildings and utilities at the Seattle-Tacoma Airport, 6½ mi. south of Seattle; Inv. 4.58-1038. Bids opened July 8. BIDS: Barfis Co., 3931 Ridgley Drive, Los Angeles, Calif., $31,355 (sched. 1, Vortac Facility), $1,200 (Sched. 2 dismantle existing VHF facility); Hansen-Kashner Co., 13 Palmer Ave., Fresno, Calif., $36,985, $2,500; H. B. Nesheim, 6714 36th Ave. S.W., Seattle, $45,298, $1,600.
LB 7-12. Previous report 6-25

ADMINISTRATION BUILDING— Seattle, Wash.
(Estimated cost $620,000)

Preliminary plans approved by University of Washington Board of Regents, for the first unit of the new business administration building in the northeast section of the campus, between Denny Hall, Hutchinson Hall and the Art Bldg. Structure will be three-story, reinforced concrete, with exterior of brick, exposed aggregate panels. A large open court will be located in the center of the square structure. Part of building will be on stilts, and a set-back first floor will provide a colonade around the building. First floor to contain administrative offices and departmental offices, the second and third floors to be faculty offices. Construction is planned for future addition of a connecting classroom unit. Construction to start about January 1, 1959. Plans by Decker, Christenson & Kitchin, architects, 1411 Fourth Avenue Bldg., Seattle.
PD 7-15. Previous report 7-8

●REMODEL BUILDING— Seattle, Wash.

Bids will be received until 3 p.m., July 23, by State Department of Institutions, Garret Heyns, director, Olympia, for extensive remodeling of a five-unit, 34,000 sq. ft., wing at Firlands, north of Seattle on 15th Ave. N.E., to provide facilities for the state's Fircrest School for bed-type patients. Plans with Merrill A. Young, supervising engineer for the department. $20 deposit. Work includes removal of partitions; installation of acoustical tile; painting of interior and exterior walls; revamping electrical system, installation of new fixtures; servicing of heating plant; roof repairs; constructing facilities to enclose an open area between two wings of building to provide outdoor activities area. PC 7-15

RESEARCH WING— Seattle, Wash.
(Estimated cost $800,000)

Preliminary plans approved by University of Washington Board of Regents, Seattle, for the S. Maimon Samuels Institute Bldg. which will be a heart and cancer research wing addition to University's Teaching and Research Hospital on the campus. Plans by Naramore, Bain & Johanson, architects and engineers, 904 7th Ave., Seattle. Structure will have three stories and basement, with provision for eventual expansion to 15 stories, in increments of three floors, and with open end to allow for future horizontal expansion to south. First floor will have entrance lobby, seminar rooms, laboratories and offices; second floor will have research laboratories and three offices; third floor to contain research laboratories, hospital administrative space, three offices. Roof will be future laboratory floor for next construction unit. Construction will start within a year. PD 7-16. Previous report 3-26

■METHODIST CHURCH ADDITION, REMODELING— Seattle, Wash.

Additional planholders announced for construction of a two-story, 5,830 sq. ft. addition to and remodeling of 2,520 sq. ft. of existing church. Bids will be opened 2 p.m., July 22, by Seaview Methodist Church, W. Graham St. and 47th S.W., Seattle. Plans with Cuykendall, Iles & Blean, architects, Arcade Bldg., Seattle.

Additional planholders: C. Hopkins & Associates, 19204 Ballinger Road; Baugh Construction Co., 922 Poplar; Nels Hedin & Co., 2312 Federal Ave.; Herbert U. Taylor, 11239 Arroyo Beach Place S.W. Of Seattle.

Wood frame; flat built-up roof, rock wool insulation in roof; brick veneer, wood siding exterior; drywall partitions; wood, metal sash; asbestos vinyl tile flooring; oil-fired hot water heating; folding space doors.
PD 7-16. Previous report 7-11

★TERRAZZO FLOORING— Sedro-Woolley, Wash.

Award to Northwest Marble & Terrazzo Co., 731 Westlake N., Seattle, $40,622, by Department of Institutions, Olympia, for terrazzo flooring at northern State Hospital Administration and Ward buildings in Sedro-Woolley. Two bids received July 2. ONLY OTHER BID: Terrazzo Corp., Inc., 1452½ Dean, Seattle, $49,000.
DE 7-12. Previous report 6-18

●JUNIOR HIGH SCHOOL—Spokane, Wash.

Bids will be opened 7:30 p.m., August 4, by School District No. 81, Dunbar B. Triplett, secretary, W. 503 4th Ave., Spokane, for construction of the two-story, 110,000 sq. ft. John Shaw junior high school at Rich Ave. and Cook St., in Spokane. Plans with Whitehouse, Price, DeNeff & Deeble, architects, and Lawrence G. Evanoff, associate, 715 Hutton Bldg., Spokane. $50 deposit. Separate bids on general, electrical and mechanical.

A cafeteria and shop will be at one end of building, gymnasium and music portion at other end, and three classroom wings between. Gymnasium will have 12" masonry walls with laminated beams and decking, other portions will be frame construction with brick veneer, laminated beams and wood decking. Entire building will have wood roof framing; asphalt, ceramic mosaic and quarry floor tile; glazed wall tile, acoustical tile and gypsum wallboard; gas-fired heating system, forced hot air, with oil standby; alt. bid for pre-fabricated cooler and freezer units for kitchen. LL 7-11

●■CHURCH— Spokane, Wash.

Bids will be opened 2 p.m., from a selected list of bidders July 22, by Manito Methodist Church, 33rd and Grand, Spokane, for construction of a new church in Spokane. Plans with George Rasque & Son, Washington Trust Bldg., Spokane. $25 deposit. Separate bids on general, mechanical and electrical.

Planholders—GENERAL: Hazen & Clark, W. 108 Boone, Spokane; Purvis Construction Co., Box 64, Yardley; Gus Bouten, N. 622 Napa, Spokane; Sceva Construction Co., 2020 N. Madelia, Spokane; Henry George & Sons, Hutton Bldg., Spokane; Troy Hood, Box 11, Opportunity. MECHANICAL: Warren Little & Lund, W. 120 Second, Spokane; Standard Plumbing & Heating, E. 1801 Sprague, Spokane; Peck & Gale, S. 215 Washington, Spokane; James Smyth Plumbing & Heating, 216 N. Division, Spokane; Womack & Conboy, 328 S. Jefferson, Spokane; Harry Lewis, W. 1904 Fifth, Spokane. ELECTRICAL: Maxwell's, Inc., 14 E. Mission, Spokane; Power City Electric, 920 N. Howard, Everett; Brown-Johnston, 118 N. Lincoln, Spokane; Electric Smith, E. 123 Sprague, Spokane; D. G. Quinton, 1413 N. Division, Spokane; Spokane Electric, E. 601 Trent, Spokane. LL 7-11

HIGH SCHOOL— Sumner, Wash.
(Estimated cost $720,000)

Bids will be called about August 15 by Sumner School District No. 320, 1623 Main St., Sumner, for one-story, 51,000 sq. ft. reinforced concrete high school in Sumner. Working drawings are nearing completion by Lea, Pearson & Richards, 240 Stadium Way, Tacoma. $25 deposit on plans. Building will be concrete block and reinforced concrete; radiator heating; asphalt tile flooring; built-up roof.
LB 7-8. Previous report 5-9

JUNIOR HIGH SCHOOL—Sunnyside, Wash.
(Estimated cost $1,258,758)

Working drawings underway by Don Gochnour and Ed Marble, architects, Miller Bldg., Yakima, for a one-story brick 800-student junior high school at Sunnyside. Bids will be called soon by Sunnyside School District No. 201, Lee Colby, superintendent, Sunnyside. Bond issue for $900,000 was recently approved.

Concrete slab on grade; steel beams and posts; poured vermiculite roof with composition roofing surfaced with gravel; steel sash; plaster and paint interior wall finish, plaster partitions; asphalt tile, ceramic tile (toilets) flooring; fluorescent lighting; boiler plant in separate building, low pressure steam heat, unit vents.
IG 7-9. Previous report 3-14

★BUILDING MODIFICATIONS— Tacoma, Wash.

Award to Rome Co., 3721 S. Tacoma, Tacoma, $2,045, by General Services Administration, room 126, Federal Bldg., 909 1st Ave., Seattle, for modifications to Bldgs. 20, 21 and 221, 5114 Steilacoom Blvd. S.W., Tacoma; Proj. No. SEA-1154. Bids opened June 30. LB 7-8. Previous report 6-27

■JUNIOR HIGH SCHOOL—Tacoma, Wash.

Planholders announced for construction of a one-story, four-building 79,581 sq. ft. school plant with poured concrete, block and brick construction, to be called Iva Alice Mann Junior High School. Bids will be opened 5 p.m., P.S.T., July 17, by Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma. Plans with Lea, Pearson &

Richards, architects, 240 Stadium Way, Tacoma.

Planholders—GENERAL: E. H. Moore, 683 Mission, San Francisco, Calif.; Concrete Construction Co., 2015 Center; Ostruske-Murphy, 1515 Center; M & O Construction Co., 5812 S. Adams; Korsmo Bros., 5944 Lake Grove S.W.; Jardeen Bros., 1240 S. Sprague; G. Kirkebo, 1410 Mountain View; Standard Construction Co., 315 E. 25th; Nelson Construction Co., 2944 S. L; Northern Construction Co., 132 Siteum Waterway. Of Tacoma unless indicated. MECHANICAL: Harold Jewell, 6605 6th Ave.; Bergh-Griggs, 709 Pacific; Woollett Plumbing & Heating, 3624 Steilacoom Blvd. S.W., of Tacoma; H. K. Western, 1714 S. Tacoma Way; H. Chapman, 1940 S. Wilkeson; Pease & Sons, 10601 Waller Road; Kaelin Plumbing & Heating, 2111 Center. Of Tacoma. ELECTRICAL: Carl T. Madsen, 808 N. 12th; Electric Construction Co., 1650 Center; Washington Electric, 5235 S. Tacoma Way; Ault Electric, 4625 N. 11th; Jardeen Electric, 1232 S. Sprague; Ace Electric, 2306 E. 11th. Of Tacoma.

LC 7-12. Previous report 7-2

★**ADMINISTRATION BUILDING ADDITION—** **Tacoma, Wash.**

Award to C/H Construction Co., 12303 Vickery Road, Tacoma, $8,384, by Franklin Pierce School District No. 402, Pierce County, 11002 Portland Ave., Tacoma, for an addition to the administration Bldg., on High School site, Portland Ave. and Airport Road, Tacoma. Bids opened July 10. Six bids received. OTHER BIDS: Oscar Morken, 137 E. 126th, Tacoma, $8,816. HI: Korsmo Bros., 5944 Lake Grove Ave. S.W., Tacoma, $11,681.

LB 7-15. Previous report 7-5

INDUSTRIES BUILDING ADDITION— **Walla Walla, Wash.**

Bids will be called upon state approval of plans by Department of Institutions, Olympia, for construction of a one-story and mezzanine, 27,000 sq. ft. addition to Industries Bldg. at Washington State Penitentiary in Walla Walla. Plans by Benjamin F. McAdoo, Jr., architect, 1718 Olive Way, Seattle. Structural engineers, Stevenson & Rubens, Olympic National Bldg., Seattle. Mechanical and electrical engineers, Bouillon, Griffith & Christofferson, 1411 Fourth Avenue Bldg., Seattle.

PD 7-2. Previous report 4-8

BOWLING ALLEY— **Wapato, Wash.**

Construction started on a 115'x75', 12-lane, bowling alley in Wapato, by V. K. Powell, general contractor, Wapato. Architects: Don Gochnour and Ed Marble, Miller Bldg., Yakima. Work will consist of converting existing building into office and locker rooms. Concrete block truss addition will be added to existing building, concrete floor, built-up roof. Plans also call for automatic pin setters.

IG 7-9

●**ELKS LODGE—** **Wenatchee, Wash.**

Bids will be opened 8 p.m., July 25, in the office of the architects, Newhall, Peach & Fraley, 111 Yakima Ave., for adding to, remodeling and rebuilding the three-story 80'x100' fire-damaged Elks Lodge Building in Wenatchee. The structure will be completely rebuilt. Plans with the architects.

Refacing of the two sides of the building with aluminum-porcelain or aluminum panels, is planned. Basement level will provide an L-shaped 32'x28' swimming pool, with wings 16' wide, a four-wall handball court, workout room, locker room, showers and steam bath facilities. Ground floor includes clubroom, library, bar and cafeteria; main floor will be installed at an intermediate level, provides for a main entrance, reception room and office space; a half-flight above main floor will be foyer, dining area, grille, cocktail lounge and bar facilities, and bandstand; third floor will be main lodgeroom, main dining room and kitchen, connected by dumbwaiter to clubroom; top floor will provide boardroom and meeting room facilities and ladies lounge. Also included is an elevator which will serve all levels, and air conditioning equipment.

LC 7-16

★**BUILDING ALTERATIONS—** **Yakima, Wash.**

Award to Central Plumbing & Heating, Box 153, Yakima, $4,765, by General Services Administration, room 126, Federal Bldg., 909 1st Ave., Seattle, for alterations and improvements to Bldg. G5 and F, Federal Civil Defense Administration Warehouse, 1011 S. 3rd St., Yakima; Proj. SEA-1148. Bids opened June 30.

LB 7-8. Previous report 6-17

RESIDENCE— **Yakima, Wash.**

(Estimated cost $40,000)

Construction started and sub-contracts will be let by Harold Sanford, owner-contractor, 418 S. 23rd Ave., Yakima, for a one-story solid masonry residence at 37th Ave. and Lincoln in Yakima. Plans by Champ Sanford, architect, 602 S. 5th Ave., Yakima.

Poured concrete footings and foundation; frame floors; built-up roofing, gravel surface; frame partitions; aluminum sash; rock-lath and plaster partitions; wood and asphalt tile flooring; plaster ceilings; mahogany and birch doors; warm air heating system, oil fired.

IG 7-10. Previous report 5-14

RESIDENCES— **Yakima, Wash.**

(Estimated cost $13,000 each)

Construction started by Levan Cowden, contractor-owner, 1612 S. 14th Ave., Yakima, on three new residences, two at 1616 S. 14th Ave., and one at 405 Delmar Terrace, Yakima. The two-bedroom residence will have a poured concrete foundation; cedar siding exterior walls, some brick under facing; composition roof; dry wall plaster with paint finish and wood trim on interior walls; aluminum sash windows; gas heat. Other two residences will be the same but will have two-car garages attached.

IG 7-15

▲**OFFICE BUILDING—** **Yakima, Wash.**

Six general, eight mechanical and five electrical bids received by Lester Shaw of Shaw & Sons, N. 2nd and G Sts., Yakima, for construction of a one-story, 8,000 sq. ft. office building to house seven firms at the corner of S. 2nd St. and Walnut in Yakima. Bids opened July 15. Plans by Champ Sanford, 602 S. 5th Ave., Yakima. Structural engineer: Peter Hostmark, Lloyd Bldg., Seattle. Mechanical engineer: Don Monroe, 3311 Lincoln Ave., Yakima. LOW BIDS—GENERAL: Al Kokenge, 621 S. 36th Ave., $71,722; Wallingford & Shelton, 205 S. 67th Ave., $74,995; Hills' Construction Co., 102 S. 5th Ave., $79,261. HI: Gilbert Moen, 516 S. 5th Ave., $84,430. MECHANICAL: Yakima Heating & Equipment, 703 Browne Ave., $16,449; Central Plumbing & Heating, 510 S. 1st St., $17,324; Thompson Plumbing & Heating, 106 N. 5th, $17,469. HI: Valley Plumbing & Heating, 609 W. Yakima Ave., $19,997. ELECTRICAL: Knobel Electric, 412 S. Glenside Drive, $3,950; Tennent Electric Co., 501 W. Yakima Ave., $4,260; Creamer Electric, 1902 Nob Hill Blvd., $4,681. HI: Smith-Wilson, Union Gap, $5,820. All of Yakima unless noted.

IG 7-16. Previous report 7-9

IDAHO

LDS CHAPEL— **American Falls, Idaho**

(Estimated cost $250,000)

Plans will be completed by August 1, by Hunter, Brower & Associates, Dietrich Bldg., Pocatello, for construction of a new LDS Chapel in American Falls, for Church of the Latter Day Saints, building committee, 125 N. Main, Salt Lake City, Utah.

GH 7-12

COUNTY HOSPITAL— **American Falls, Idaho**

(Estimated cost $350,000)

Preliminary plans are underway by Nat J. Adams, architect, 325 Idaho Bldg., Boise, for a 25-bed county hospital to replace existing Schlitz Memorial Hospital, for Power County Hospital Board, Robert Ewing, president, American Falls.

GH 7-15

★**SCHOOL ADDITION—** **Arco, Idaho**

Award to Goodwin Builders, 1250 Ada Ave., Idaho Falls, $49,850, by Joint Class A School District No. 111, Irvin W. Spencer, superintendent, Arco, for constructing a front entrance and two additional classrooms at the present high school building, to provide a junior high school area. Plans by C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls.

LB 7-12. Previous report 7-5

HOSPITAL— **Arco, Idaho**

All bids rejected as too high by Butte County Commissioners, Courthouse, Arco, for constructing a 100-bed hospital for the Lost River Valley Hospital Association, Inc., Arco. Architects: C. A. Sundberg & Associates, 111 E. 16th, Idaho Falls. Nine bids received.

LB 7-16. Previous report 7-9

●**STUDENT CENTER—** **Caldwell, Idaho**

Bids will be opened 2 p.m., July 29, by Board of Trustees, College of Idaho, Caldwell for construction of a one-story, 11,224 sq. ft. Student Center Building for the College. Specifications with architects Hummel, Hummel and Jones, 1324 Idaho St., Boise, or above address. Bid bond 5%.

Concrete footings, foundations; frame walls; concrete floor; flat roof; timber beams; frame partitions; steel windows; brick veneer exterior; plaster on gypsum lath interior partitions; asphalt tile flooring; acoustical ceilings; wood doors and cabinets; folding doors; hot water, gas fired heating system.

RM 7-12. Previous report 6-17

★**ELEMENTARY SCHOOL—Caldwell, Idaho**

Award to Emery S. Conner, Nampa, $128,-0000, by Class A School District No. 132, Canyon County, Caldwell, for constructing one-story, 212'x72', solid masonry, 13-classroom addition to Washington Elementary School in Caldwell. Plans by Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise.

LB 7-12. Previous report 7-8

●**SCHOOL ALTERATIONS—** **Caldwell, Idaho**

Bids will be opened 2 p.m., July 29, by Board of Trustees, Class A School District No. 132, Canyon County, in office of the superintendent, Caldwell, on miscellaneous construction in Jefferson Junior High School, including acoustical tile, asphalt tile flooring, rubber tile flooring, floor

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sanding and some plumbing. Architects: Dropping, Kelley & Finch, 2504 Kootenai, Boise. Specifications with architects. Certified, cashier's check or bid bond 5%.
RC 7-16

●GARAGE— Elk River, Idaho

Bids will be opened 7 p.m., July 22, by Elk River School District No. 172B, superintendent, Elk River, for construction of a 32'x48' school bus garage. Plans with Putnam and Dimke, 412 Sixth St. (Box 515), Lewiston. MH 7-16. Previous report 9-27

ELEMENTARY SCHOOL— Firth, Idaho

Bond election of $350,000 which was to finance construction of a ten-classroom elementary school at Firth, was defeated June 17, by voters in Class A School District No. 59, Firth. Architect: Norman J. Hamill & Associates, 203 Earl Bldg., Idaho Falls.
GH 7-2. Previous report 6-14

●RANGER STATION—Grangeville, Idaho

Bids will be opened 2 p.m., August 4, by U.S. Forest Service, Regional Forester, room 1036, Federal Bldg., Missoula, Mont., for construction of three 3-bedroom residences with garages and one office-warehouse building at Slate Creek Ranger Station, 30 mi. south of Grangeville. Plans with above office.
LL 7-11

AIRPORT ADMINISTRATION BUILDING— Idaho Falls, Idaho

Description follows for construction of an Airport Administration Building for Fanning Field, Idaho Falls, located on owners municipal airport property west of the river and southwest of the present Administration Building. Bids will be opened 2 p.m., M.S.T., July 25, by City Council, City Building, Idaho Falls. Plans with L. E. Stalker, architect, 218 Rogers Building, Idaho Falls.

Reinforced concrete; brick facing; 72'x234' (24,700 sq. ft.); 3,000 sq. ft. covered walks and ramps outside.
GH 7-15. Previous report 7-9

★AIR CONDITIONERS— Lewiston, Idaho

Award to Electro-Kold Co., Lewiston branch, 1109 Main St., Lewiston, $4,459, by Nez Perce County Commissioners, Courthouse, Lewiston, for installing 14 window type air conditioners in the Nez Perce Courthouse at Lewiston. Bids opened June 23. LB 7-3. Previous report 6-11

ELEMENTARY SCHOOL— Melba, Idaho

All bids were rejected for constructing a six-room elementary school, high school gymnasium and remodeling of the high school when bids were opened July 9 by the Melba School District. Project to be restudied and submitted for rebidding. Minor necessary work will be done by school authorities. Plans with Charles W. Johnston, A.I.A., and Robert J. Smith, associate, 13 N. 8th, Payette.
RG 7-15. Previous report 7-5

STUDENT UNION BUILDING ADDITION— Moscow, Idaho

Working drawings by Dropping, Kelley & Finch, architects, 2504 Kootenai, Boise, and Wayland & Cline, associate architects, Idaho Bldg., Boise, are waiting approval of Board of Regents of the University of Idaho, Moscow, on an addition to the student union building, on the university campus. Bids will be called later in the summer or early September. It is hoped that construction can be started early in the spring of 1959. Mechanical and electrical engineer is Lyle Marque & Associates, Realty Bldg., Spokane.

Building will be built around an enclosed court with skating rink (covered) at one end. Two-story building and basement; 60,000 sq. ft.; reinforced concrete footings, foundation; poured concrete and metal walls; concrete beams and girders; flat roof, concrete, partial truss; concrete stairways; aluminum windows; plaster partitions; wood, asphaltic tile, ceramic tile and terrazzo floor finish; acoustical ceiling; folding doors; refrigeration; partial air conditioning; steam heat from central system. Cost including construction, utilities, furnishings and fittings estimated at $1,800,000.
DM 7-2. Previous report 5-20

BANK ADDITION— Moscow, Idaho
(Estimated cost $130,000)

Bids will be called later this month by First Security Bank of Idaho, First Trust Branch, F. K. Dammarell, manager, 221 S. Main, Moscow, for constructing a 40'x40', two-story with basement, addition to the bank and remodeling the existing building. The addition will be brick and cement with composition roof, concrete and tile flooring, gas heating system. Architect: Hummel, Hummel & Jones, 1324 Idaho, Boise.
RM 7-8. Previous report 6-11

SCHOOL— Moscow, Idaho
(Estimated cost $480,000)

Additional description announced for construction of a two-story masonry junior high school on D Street in northwest Moscow. Bids will be opened 2 p.m., August 6, by Moscow School District No. 281, 205 N. Monroe, Moscow. Plans by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane.

Building will include science room, 14 classrooms, home economics room, music department with band room, practice rooms and storage, office suite, multi-purpose room with stage, kitchen, shower and dressing rooms, mechanical room, and combination library and study hall. Exterior walls to be brick and block, concrete slab on grade; vermiculite concrete slab with built-up roof; unit ventilators in classrooms; incandescent lighting; second floor and ceiling construction to be concrete slab over steel joists; acoustical tile.
LL 7-16. Previous report 7-10

●■WAREHOUSE— Mountain Home AFB, Idaho

Bids will be opened 11 a.m., July 31, by U.S. Air Force, procurement office, Mountain Home AFB, for lining and sealing the interior of the exterior walls of the Jumbo Warehouse and the interior of the roof area by insulating and applying ½" gypsum board, Mountain Home Air Force Base; IFB-10-603-58-72. Bid bond 5%. Plans with above office.

Planholders: Richard L. Adams, 1014 La-Pointe, Boise; Francis J. Bueche, 1501 Arnold Blvd., Riverside, Calif.; Ulmer & Jacobsen, 3518 Meadow Drive, Boise; Fiberglas Engineering, 2525 Ark St., Boise; Idaho Acoustical & Building, 4057 Chinden Blvd., Boise; McMillin Painting and Decorating, 201 W. Ash St., Caldwell, Idaho; C. H. Elle Construction Co., Box 1190, Pocatello; J. E. Nonenmacher, 5518 Cruzen Road, Boise; J. H. Wise & Son, 222 Broadway, Boise; Max A. Boesiger, 185 E. 2nd N., Mountain Home; Comstock & Dexter, 503 N. 11th E., Mountain Home; E. A. Fulton, 1709 Main, Boise; Babbitt Construction Co., Box 4038, Boise; Barney Builders, 202 E. Ash St., Caldwell; Sheriden, Inc., 236 North Lake Ave., Pasadena, Calif.; Plewe Construction Co., 838 E. S. Temple, Salt Lake City, Utah. GH 7-12

■WAREHOUSE— Mountain Home AFB, Idaho

Additional planholders announced for lining and sealing the interior of the exterior walls of the Jumbo Warehouse and the interior of the roof area by insulating and applying one-half gypsum board, Mountain Home Air Force Base; IFB-10-603-58-72. Bids will be opened 11 a.m., July 31, by U.S. Air Force, procurement office, Mountain Home AFB.

Additional planholders: Watkins Construction Co., Box 1786, Boise; Johnson Brothers, 460 S. 2nd East, Mountain Home; Al Williamson's Farm and Home Painting, General Delivery, Mountain Home.
GH 7-15. Previous report 7-12

●BANK— Orofino, Idaho

Bids will be opened 2 p.m., M.S.T., July 22, by Idaho First National Bank, John A. Schoonover, president, 205 N. 10th, Boise, for construction of a new branch bank on a 96'x122' lot located at the corner of Michigan Ave. and A St. in Orofino. Plans with Hugh Richardson, architect, 407 Weisgerber Bldg., Lewiston and Arthur M. Bunnell, associate architect, 1919 Ridgeway Drive, Lewiston. Two dwellings were moved to prepare the site for the bank. Completion time October, 1958.
LL 7-15. Previous report 5-6

MONTANA

★ELEMENTARY SCHOOL— Anaconda, Mont.

Awards announced by Anaconda Public School District, Main and 4th Ave., Anaconda, for construction of one-story and partial basement, 26,000 sq. ft., 12-classroom W. K. Dwyer Elementary School with multi-purpose room and equipped cafeteria in Anaconda. Architects: Fox, Ballas & Barrow, Savings Center Bldg., Missoula. Bids opened June 25. AWARDS—GENERAL: Huckaba, Lutey & Co., 202 2nd W., Whitehall, $239,990. MECHANICAL: William C. Schmidt & Son Plumbing & Heating, 406 E. Park, Anaconda, $55,665. ELECTRICAL: Copper City Electric, Anaconda, $22,858. KITCHEN EQUIPMENT: Northwest Fixture Co., Butte, $2,354. CLASSROOM EQUIPMENT: Montana School Supply, 803 E. Arizona, Butte, $13,601.
LB 7-15. Previous report 6-12

★BORDER STATION REPAIRS— Babb-Piegan, Mont.

Award to Sandall Construction Co., Inc., W. 2828 Sharp, Spokane, Wash., $45,096, by General Services Administration, room 12[illegible], 909 1st Ave., Seattle, for repairs to U.S. Border Station, Babb-Piegan; Proj. No. SEA-1076. LB 7-16. Previous report 7-7

■HIGH SCHOOL— Billings, Mont.

Planholders announced for construction of a one- and two-story with no basement, 103,000 sq. ft., poured concrete and solid masonry high school in Billings. Bids will be opened 8 p.m., July 29, by Board of Trustees, Yellowstone County School District No. 2, 2911 4th Ave. N., Billings. Plans with Nordquist & Sundell, architects, 1220 N. 27th St., and Drake & Gustafson, associate architects, Empire Bldg., Billings.

Planholders—GENERAL: C. B. Lauch Construction Co., 104 4N., Great Falls; Eickhoff Construction Co., Crookston, Minn.; Lowe Construction Co., 2325 9th Ave. N., Billings; Hitz Construction Co., 2111 4th Ave. N., Billings; Boespflug Construction Co., 502 N. 25th St., Billings; Pederson Construction Co., 2925 Ronan Drive, Billings. MECHANICAL: Christensen Plumbing & Heating, 3615 Montana Ave., Billings; Midland Plumbing & Heating, 425 N. 19th St., Billings; Frisby Plumbing & Heating, 213 Grand Ave., Billings. ELECTRICAL: Mike's Electric, Sheridan, Wyo; John M. Schroeder, Grand Forks, N. Dak.; Yellowstone Electric, 520 N. 32nd St., Billings; Sterling Electric, 1231 Central Ave., Billings; Empire Electric, 2412 4th Ave. N., Billings; Curley-Naylor Electric, 123 N. 16th St., Billings.
EE 7-15. Previous report 7-1

▲WOMEN'S RESIDENCE HALL— Bozeman, Mont.

Ten general, five mechanical, six electrical and two kitchen equipment bids received at July 14 bid opening by Montana State College, R. R. Renne, president, Bozeman, for construction of Women's Residence Hall No. 2, at Montana State College in Bozeman. Plans by Cushing, Terrell & Associates, architects-engineers, 1333 Airport Road, Billings. Basic figures are given. GENERAL—LOW BID: Haggerty-Messner Co., Box 751, $950,000. OTHER BIDS: Matelich Construction Co., Box 456, Kalispell, $960,000; Cahill-Mooney Construction Co., Box 398, Butte, $968,000; Lauch Construction Co., Box 724, Great Falls, $977,777; J. C. Boespflug Construction Co., Box 1237, $995,845; Eickhof & Sons, Inc., Crookston, Minn., $1,004,484; H. Halvorson, Inc., Box 6, Yardley, Wash., $1,038,945; Lowe Construction Co., Box 1956, $1,047,500; Pederson Construction Co., Box 275, $1,067,663; H. S. Leigland & Sons, 1501 N. 35th, Seattle, Wash., $1,141,775. MECHANICAL—LOW BID: Midland Plumbing and Heating, Box 1911, $244,851. OTHER BIDS: Reber Plumbing and Heating, 805 N. Last Chance Gulch, Helena, $274,885; Budd Plumbing and Heating, 317 E. Mendenhall, Bozeman, $299,500; F. J. Trunk & Son, Inc., 223 E. Main, Bozeman, $305,673; Kalispell Plumbing and Heating, 333 First Ave. E., Kalispell, $325,852. ELECTRICAL—LOW BID: Bozeman Elec-

tric Co., 213 E. Main, Bozeman, $82,595. OTHER BIDS: Yellowstone Electric Co., 520 N. 32nd, $91,806; Tschache Brothers, Box 716, Bozeman, $98,777; Empire Electric Co., 2412 4th Ave. N., $105,563; F. L. Dye Co., 30 W. Main, Bozeman, $109,265; J. M. Schroeder, Inc., $118,180. KITCHEN EQUIPMENT: Northwest Fixture Co., 424 N. 32nd, $43,175; Lamb's, Inc., 108 N. 34th, $50,000. Of Billings. LS 7-16. Previous report 7-8

SUNDAY SCHOOL BUILDING— **Columbia Falls, Mont.**

Plans announced for construction of a Sunday School building by the congregation of Columbia Falls Methodist church, Rev. Fred Gaston, pastor, Columbia Falls. A building fund campaign has been set for September 19 to October 1 by Henry Casterline and Theodore Andrew, co-chairman of the fund drive, Columbia Falls. RB 7-11

▲HEATING PLANT—Crow Agency, Mont.

Six bids received by Bureau of Indian Affairs, Edward A. Poynton, chief of design and construction, Box 1777, Albuquerque, New Mexico, for replacing steam and condensate distribution piping between boiler plant and hospital and installing oil-fired steel boiler with condensate and boiler feed pumps in Hardin, Mont., on U.S. Highway 87; Proj. ABU-PH-32. Bids opened July 8. LOW BIDS: Holmes Plumbing & Heating Co., 309 N. Custer, Hardin, $23,147; Regan Plumbing & Heating, 11 S. 9th St., Miles City, $25,894. HI: Columbus Plumbing & Heating Co., 756 Broadway, Sheridan, Wyo., $38,700. LB 7-15. Previous report 6-20

●SCHOOL— **Flaxville, Mont.**

Bids will be opened 8 p.m., July 25, by Public School District No. 7, Flaxville, for construction of a school in Flaxville. Plans with Davidson & Kuhr, 104 4th St., Great Falls. $35 deposit. 5% bid bond. Separate bids for general, mechanical and electrical.

Building will include six classrooms, two office rooms, assembly-library, science, gym, three locker rooms, lobby, kitchen, toilet and shower rooms. Glued-laminated beams; concrete floor slab; block walls; asphalt and vinyl tile floors; glazed tile walls in toilets and showers; acoustical tile ceilings. LL 7-15

●GRADE SCHOOL, GYMNASIUM— **Forsyth, Mont.**

Bids will be opened 10 a.m., M.S.T., July 26, by Father Joseph Galour, pastor, Immaculate Conception Parish, Rectory, Forsyth, for a one-story, two-wing, 123'x76', six-room reinforced concrete classroom and administrative wing, containing six classrooms, office, library, kitchen, boys and girls toilets, showers and lockers, and for construction of a 113'x68' reinforced concrete gymnasium and stage including separate gym entrance vestibule at Forsyth. Plans with J. G. Link & Co., architects and engineers, Electric Bldg., Billings. $50 deposit. 5% bid bond.

CLASSROOM: glued-laminated beams on steel column with 4x6 T&G decking; face brick walls with concrete block back-up, other walls, "curtain-wall" with windows and porcelain steel panels; frame partitions with gypsum wallboard, plaster in kitchen and locker rooms, ceramic tile in shower, locker and toilets; exposed underside ceilings; plaster furred down in kitchen, library, locker rooms, showers, toilets; flat built-up roof on 4x6 T&G wood deck, no gravel; incandescent lighting; electronic clock system; electric fire alarm system; gas-fired warm air heating system, separate units for classrooms and gym, stage, toilet and locker section, administrative and kitchen section; recirculation in heating system with automatic fresh air intake ventilating system, mechanical exhaust automatically controlled. GYM: Glued-laminated arches with wood deck; face brick walls with concrete block back-up; aluminum awning type windows; hardwood floor floating on dry sand bed; stage floor to be fir flooring on wood frame; 1" per foot pitched built-up roof on 4x6 T&G deck, no gravel, some lighting, ventilating and heating system as classroom. LB 7-11

HOSPITAL— **Great Falls, Mont.**

Plans will be complete later this month by Knight & van Teylingen, architects, Medical Arts Bldg., Great Falls, for construction of the one-story, 90,000 sq. ft., concrete Cascade County Convalescent Hospital on a site in Highland Park south of Great Falls. Bids will be called approximately the middle of August by Cascade County Commissioners, Courthouse, Great Falls. $10 deposit.

Building to include boiler room; solid masonry, curtain walls; concrete, beam and girder floors; concrete precast girders; prestressed roof; concrete stairways; aluminum windows; rigid insulation in roof; porcelain enamel panels on exterior walls, plaster on interior; exposed masonry, plaster, metal stud partitions; asphalt, ceramic and vinyl tile floors; plaster, acoustical ceilings; wood and aluminum doors; wood and steel cabinets; glass panels; refrigeration; fire doors; hot water heating system, gas fuel; ventilating system; alternate for air conditioning. LB 7-16. Previous report 3-26

SCHOOLS— **Helena, Mont.**

Plans announced for construction of an elementary school on school property bounded by Allison, Cleveland and Knights, West Helena, and a smaller elementary school in area bounded by Eight, Ninth, Oakes and Harris, East Helena. Plans for west-side school by Sigvald Berg, and Morrison-Maierle Co., 711 Monroe Ave., Helena, and plans for east-side school by Ostheimer and Campeau, Granite Bldg., Helena. Bids will be called by School District No. 1, Helena. LC 7-2

★SCHOOL ADDITION— Helena, Mont.

Award to Al Sternberg, 909 N. Dakota, Helena, $18,203 ($16,952 basic plus $1,251 for automatic heating) by Board of Trustees, School District No. 2, Kessler School, Helena. Plans by Sigvald L. Berg, 1711 Monroe, Helena. Bids opened July 2. OTHER BIDS: Wallace Waddell, 1310 Leslie Ave., Helena, $19,200 ($17,600 plus $1,600); L. P. Barney, 1100 Waukesha Ave., Helena, $19,916 ($18,441 plus $1,475); Al Johnson, 319 S. Park Ave., Helena, $20,101 ($18,679 plus $1,422); John Bergum, 915 Poplar St., Helena, $20,726 ($19,381 plus $1,345); Underseth & Logan, 916 Harrison Ave., Helena, $23,300 ($21,900 plus $1,400). LS 7-11. Previous report 6-19

EDUCATIONAL WING ADDITION— **Helena, Mont.**

Plans announced for an educational wing addition to St. John's Lutheran Church, Rev. Nels Norbeck, pastor, 1000 Helena Ave., Helena, which will be attached to the main church building at the north and will conform to existing structure, by architects Ostheimer & Campeau, Granite Bldg., Helena. Electrical engineer: Harold Paulsen, 1124 Prospect Ave., Helena. Completion time, early 1959. LS 7-11

▲VOCATIONAL SCHOOL ADDITION— **Helena, Mont.**

Eight bids for the general, five for mechanical, and four electrical bids received on July 10 by State Board of Examiners, G. L. Bryant, executive secretary, State Capitol Bldg., Helena, for constructing one-story and no basement, 36'x56', concrete block reception and security unit addition to the Montana State Vocational School for Girls in Helena Valley. Plans by Sigvald L. Berg, architect, 711 Monroe Ave., Helena. GENERAL—LOW BIDS: L. P. Barney Construction Co., 1100 Waukesha Ave., $31,156; Wallace Waddell Construction Co., 1310 Leslie Ave., $32,300. HI: Sternberg & Son, 909 N. Dakota, $37,211. MECHANICAL — LOW BIDS: Reber Plumbing and Heating Co., 805 N. Main, $8,867; City Plumbing and Heating Co., 413 N. Main, $9,628. HI: Raue Plumbing and Heating Co., 110 S. Main St., $10,273. ELECTRICAL — LOW BIDS: Allen Electric Co., 331 N. Main, $2,000; Palmquist Electric Co., 420 N. Main, $2,225. HI: Mayer Electric Co., 210 N. Rodney, $2,378. Of Helena. LS 7-15. Previous report 6-13

RESIDENCE— Kalispell, Mont.
(Estimated cost $18,000)

Plans announced for constructing a new residence at 732 Woodland Ave., Kalispell, by Tuscher & Bates, contractors, Kalispell, for D. E. Smyser, 1113 Second Ave. E., Kalispell. RB 7-2

★SCHOOL ADDITION— Kalispell, Mont.

Award to Russell Anderson, 1045 Second Ave. W., Kalispell, $8,600, by Deer Park School District, Kalispell, for constructing a one-room addition to Deer Park Rural school, 10 mi. northeast of Kalispell. An identical bid was submitted by Collins Construction Co., Route 1, Kalispell, but award was made to Anderson on basis of shorter completion time—60 days. Five bids received. RB 7-11

●CHURCH, EDUCATION BUILDING— **Laurel, Mont.**

Bids will be opened 8 p.m., August 7, by St. John's Lutheran Church at Laurel, for construction of one-story, full basement under education unit, 42'x85' church and 32'x80' education building, to be connected by a narthex. Plans with Drake & Gustafson, architects, Empire Bldg., Billings. $30 deposit. Separate bids for general and electrical.

Solid masonry, frame walls; frame, concrete slab floors; timber girders; flat, A frame over nave roof; frame partitions; wood stairways; wood, aluminum windows; rigid insulation in roof, blanket insulation in walls; brick and frame exterior walls, brick and plywood, wood cedar, mahogany interior walls; acoustical ceilings; wood cabinets; folding doors; blackboards; skylights; incandescent lighting; perimeter forced warm air heating system; gas fuel; ventilating system. EE 7-16

CONCRETE BLOCK BUILDING— **Libby, Mont.**

Excavation completed by Caton Corp., general contractors, Libby, for a 100'x56' concrete block building set back from California Ave. and Third St., for Magic Cleaners, owners, Libby. Contract awarded for $35,000. Building will be constructed with laminated beams, diagonal glass front on corner and a canopied drive area for customer drive-in service. Rental shop space with off-street parking is included at east end of the building. Completion time September, 1958. LC 7-11

★OPEN MESS HALL— **Malmstrom AFB, Mont.**

Award to H. S. Leigland & Sons, 1501 N. 35th, Seattle, $420,786 (items 1-25), by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for construction of a one-story, 14,500 sq. ft. reinforced concrete open mess, N.C.O., Malmstrom AFB; ENG-45-164-58-28. RM 7-12. Previous report 3-13

●HEATING SYSTEMS— Missoula, Mont.

Bids will be opened 7:30 p.m., July 23, by School District No. 1, Board of Trustees, Administration Building, 215 S. 6th St. W., Missoula, for converting the heating plants to gas-fired systems in seven schools and to furnish a new gas-fired heating plant for the Administration Building, Missoula. Plans with school district clerk, above address. LC 7-16

★BORDER STATION REPAIRS— **Raymond, Mont.**

Award to Boundary Construction Co., Plentywood, $37,400, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, for improvements and repairs, U.S. Border Station, Raymond; Proj. SEA-824. LB 7-1. Previous report 7-2

BUILDING IMPROVEMENTS— **West Glacier, Mont.**
(Estimated cost $50,000)

Plans announced for enlarging the dining room and gift shop at Lake McDonald hotel in Glacier National Park, by Glacier Park Co., subsidiary of Great Northern Railway Co., West Glacier. RB 7-2

HIGH SCHOOL— Wibaux, Mont.

Bids will be called the latter part of this year by Wibaux School District, Wibaux, for constructing a new high school building at Wibaux. Architect: Edwin G. Osness,

2714 10th Ave. N., Billings. Bond election for $500,000 was recently approved at Wibaux. EE 7-3. Previous report 6-12

ALASKA

ALASKA METHODIST COLLEGE—
Anchorage, Alaska

Bids will be called in February 1959 for construction of the four-year Alaska Methodist University, Dr. Donald F. Ebright, president, Anchorage, to be located four mi. south of Anchorage on a 242-acre tract near Goose Lake. Plans by Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage. The initial Academic Building, estimated to cost $1,100,000, will be completed by fall of 1960.

Long range plans call for a campus of six classroom buildings, four men's dormitories, three women's dormitories, a student union building, library, auditorium, chapel, gymnasium and hockey field, athletic field and bleachers, president's house, married students apartments, trailer court, faculty housing area and an on-campus shopping center. Each classroom building will include 14 classrooms, a conference room and 20 offices. The student union building will contain a large social room, six student committee rooms and lobby.

AL 7-3. Previous report 5-2

● **TELEPHONE EXCHANGE BUILDINGS—**
Anchorage, Alaska

Bids will be received until 2 p.m., July 31, by City Manager, City Hall, (Box 400), Anchorage, for construction of three subexchange telephone buildings—Federal Exchange at Grandview Gardens, Fairfax in Spenard, Diamond on Seward Highway near Sand Lake Road. Plans with Manley & Mayer, architects, room 210, Loussac-Sogn Bldg., Anchorage. $25 deposit. Bid bond 10%. C. A. Pangborn, Arcade Bldg., Seattle, mechanical engineer; Howard E. Schroedel, Lowman Bldg., Seattle, electrical engineer. Buildings are one-story, no basement; reinforced concrete; 6,842 sq. ft. total in three buildings, one having 1,060 sq. ft., others each having 2,900 sq. ft.; concrete slab-on-grade; steel joists; frame partitions; wood stairways; glass block windows; blanket insulation in exterior walls; fluorescent lighting; vinyl asbestos tile flooring; oil-fired warm air heating; air conditioning.

AL 7-16. Previous report 2-6

● **APARTMENTS—** **Bethel, Alaska**

Bids will be opened 2 p.m., A.S.T., August 1, by Civil Aeronautics Administration, procurement branch, 223 E. 5th Ave., Pioneer Bldg., Anchorage, for construction of two frame court-type apartments, and construction of a quarters access road and related work, Bethel; Ref. No. 5-59-2. LB 7-15

★ **PAINTING—** **Eielson AFB, Alaska**

Awards to Interior Paint Co., Box 1353, Fairbanks, $19,382 (exterior painting of 17 buildings); Marinell Painting Co., Box 763, Fairbanks, $25,044 (receiver and transmitter buildings); Marinell Painting Co., Box 763, Fairbanks, $10,000 (building T-516); by Procurement Office, Eielson AFB, for exterior painting 17 buildings plus receiver and transmitter buildings; IFB No. 65-503-58-161; and interior and exterior of Bldg. T-516, IFB 65-503-58-156. Bids opened June 16.

LB 7-15. Previous report 6-5

■ **MAINTENANCE BUILDING—**
Homer, Alaska

Planholders announced for constructing a metal maintenance building at Homer Municipal Airport, Homer; Proj. No. 9-50-036-02. Bids will be opened 2 p.m., A.S.T., July 14, by Director of Aeronautics, room 202, Glover Bldg., Anchorage.

Planholders: Alaska Metal Buildings, Box 2194, Anchorage; Steel Culverts and Buildings, Inc., Box 3327, Anchorage; Western Steel Buildings, Box 2274, Anchorage; Bachner Co., 1603 Bannister Road, Anchorage; York Steel Co., Box 1705, Anchorage; Arndt Bros., Box 9, Homer; Nordin Construction Co., Box 1771, Fairbanks; Ramstad Construction Co., Box 1451, Anchorage; Glen Doughty, Box 41167, Spenard; Bruce Electric Co., Box 638, Anchorage; Jackson Steel Corp., Box 1336, Spenard; F & W Construction Co., 1042 11th Ave., Anchorage.

AL 7-12. Previous report 6-25

▲ **MAINTENANCE BUILDING—**
Homer, Alaska

Five bids received by Director of Aeronautics, room 202, Glover Bldg., Anchorage, for constructing a metal maintenance building at Homer Municipal Airport, Homer; Proj. No. 9-50-036-02. Bids opened July 14. LOW BID: Arndt Bros., Box 9, Homer, $20,893. OTHER BIDS: Steel Culverts and Buildings, Inc., Box 3227, Anchorage, $21,896; Doughty Construction Co., Box 41167, Spenard, $30,986; Ramstad Construction Co., Box 1451, Anchorage, $31,200; The Bachner Co., 1603 Bannister Road, Anchorage, $34,195.

AL 7-16. Previous report 7-12

SCHOOL ADDITIONS— **Juneau, Alaska**

Bids will be called soon by Alaska Public Works, Box 1181, Juneau, for: Contract A—construction of a reinforced concrete and steel gymnasium addition. B—Construction of a reinforced concrete and steel auditorium addition to the new high school for Juneau-Douglas Independent School District, Sterling S. Sears, superintendent, 1250 Glacier Ave., Juneau. Bond issue for $300,000 was approved on April 29.

JU 7-8. Previous report 5-3

● **SCHOOL ADDITIONS—** **Juneau, Alaska**

Bids will be opened 10 a.m., P.S.T., August 20, by Alaska Public Works, Box 1181, Juneau, for: Contract A—Construction of a reinforced concrete and steel gymnasium addition. B—Construction of a reinforced concrete and steel auditorium addition to the new high school for Juneau-Douglas Independent School District. Sterling S. Sears, superintendent, 1250 Glacier Ave., Juneau; Project Aaa 50-A-238. Plans with above office. $25 deposit. Certified check or bid bond 5%. RM 7-12. Previous report 7-8

● **ELECTRICAL MODIFICATION—**
Ladd AFB, Alaska

Bids will be opened 2 p.m., A.S.T., August 4, by U.S. Air Force, Procurement Office, Ladd AFB, for minor electrical modifications in Bldg. 1555; rehabilitation of lighting in Warehouse No. 1, Bldg. 3652; installation of eight lights in Main Power Plant, Bldg. 3595, Ladd Air Force Base; IFB 65-503-58-[illegible]. Plans with above office.

LB 7-[illegible]

★ **ELEMENTARY SCHOOL—Tanana, Alaska**

Award to Pacific Construction Co., Box 1051, Fairbanks, $214,000, by Paul L. Gagnon, Alaska purchasing agent, Alaska Office Bldg., Juneau, for construction of a two-classroom school and other quarters together with outside utilities and site improvements at Tanana; Inv. No. 156. Architect: Linn A. Forest, 622 Hemlock, Juneau.

JU 7-12. Previous report 7-[illegible]

SCHOOL BASEMENT REMODELING—
Whittier, Alaska

Plans will be completed July 25 for remodeling basement of the Whittier School, providing play area, drainage in basement and for converting storage room to science room. Architects are Foss, Olsen & Smith, 109 W. 3rd, Juneau. Bids will be called later by Housing and Home Finance Agency Field Station, 1107 I St., Anchorage. Mechanical engineer: J. Donald Kroeker & Associates, 4504 S.W. Corbett, Portland. Electrical engineer: Grant Kelley & Associates, 1008 S.W. 6th, Portland.

Poured concrete walls; concrete floors; masonry partitions; concrete stairways; wood windows; wood aluminum doors; portable laboratory demonstration table; incandescent and fluorescent lighting; unit heaters connected to existing heating system.

LB 7-3. Previous report 6-[illegible]

● **APARTMENTS—** **Yakutat, Alaska**

Bids will be opened 2 p.m., A.S.T., August 4, by Civil Aeronautics Administration, procurement branch, 223 E. 5th Ave., Anchorage, for construction of a six-unit court-type apartment, furnish and install 2,000-gal. fuel storage tank, water service, sewer line, soap by-pass line, effluent line and septic tank, in Yakutat; Inv. No. 5-59-4. Plans with above office. 10% bid bond. LB 7-[illegible]

● **REPAIR HANGAR ROOF—**
Yakutat, Alaska

Bids will be opened 11 a.m., A.S.T., August 1, by Civil Aeronautics Administration, procurement branch, 223 E. 5th Ave., (Pioneer Bldg.,) Anchorage, for approximately 20,250 sq. ft. repairing and coating existing main hangar roof, Yakutat; Inv. No. 5-59-3. Bid bond 10%. Plans with above office.

LB 7-[illegible]

ENGINEERING NEWS

Oregon, Washington, Idaho, Montana, Northern California, Alaska

● Bids Called
★ Contract Awards
▲ Low Bids—Bids Received
■ Planholders—Prospective Bidders

OREGON

★ **RIGHT-OF-WAY FENCING—**
Ashland, Ore.

Award to Harold W. Salter, Box 145, Rogue River, $7,532, by Bureau of Reclamation, Camp White, for right-of-way fencing for relocated Highway No. 66, Sta. 8+00 to Sta. 167+20, 4 to 9 mi. from Ashland; Spec. No. 100C-336. LB 7-12. Previous report 6-12

★ **WATER MAINS, SPRINKLER, FIRE HYDRANT—Beaver Army Terminal, Ore.**

Award to Packard Pipe and Pump Co., 554 14th, Longview, $15,796, by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for freezing protection, pier water mains and fire hydrants, Beaver Army Terminal; ENG-45-108-58-180.

LB 7-2. Previous report 6-26

★ **STEEL SHAPES—** **Bonneville, Ore.**

Award to Standard Steel & Metal Co., 1700 S.W. 1st Ave., Portland, $1,420, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for steel flats, angles, plate, channels, etc., fob Bonneville; CIVENG-35-026-58-227.

CG 7-8. Previous report 6-[illegible]

★ **BITUMINOUS PLANTMIX SURFACING—**
Bonneville, Ore.

Award to Oregon Asphaltic Paving Co., 0441 S.W. Porter St., Portland, $12,750, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for bituminous plantmix surfacing and bituminous plantmix surfacing and bituminous seal coat on designated roads at Bonneville Dam, Ore.; CIVENG-35-026-58-235.

CG 7-5. Previous report 6-[illegible]

★ **CHLORINATING UNITS—**
Bonneville Dam, Ore.

Award to R. H. Brown & Co., 5825 N.W. Front Ave., Portland, $1,230, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for three chlorinating units, consisting of hypochlorinators with semi-automatic controls and chlorine solution tanks, fob Bonneville Dam; CIVENG-35-026-58-240. Bids opened June 27.

WB 7-8. Previous report 6-[illegible]

■ **SEWAGE SYSTEM—**
Cannon Beach, Ore.

Planholders announced for construction of

a sewage system including sanitary sewers (Sched. S), sewage pumping station (Sched. P), and sewage stabilization ponds in Cannon Beach. Bids will be opened 8 p.m., July 28, by City Council, Cannon Beach. Consulting engineers: Cornell, Howland, Hayes & Merryfield, 1600 Western Ave., Corvallis.

Planholders: Paul Ferneding, 4505 Sheridan Drive, Vancouver, Wash.; Trio Construction Co., Inc., 3170 West 11th, Eugene; LaVelle Construction Co., 10430 S.E. Bush St., Portland; Riverside Construction Co., Box 3853, Portland.

RM 7-16. Previous report 7-5

★**GRADING, PAVING— Corvallis, Ore.**

Award to Warren Northwest, Box 5072, Portland, $6,698 (Dist. 290), and Corvallis Sand & Gravel, Gallagher Rd., Corvallis, $11,897 (Dist. 292-A), by City Council, City Hall, Corvallis, for asphaltic concrete paving, grading and draining in Dist. 290 and Dist. 292-A. LB 7-11. Previous report 7-3

★**ROAD WORK— Eugene, Ore.**

Awards announced by Lane County Commissioners, Courthouse, Eugene, for 1—improving Debrick Road, 2—improving Nova St., 3—production of 5,000 c.y. rock in Swisshome area. AWARDS—DEBRICK: T. C. Wildish Sand & Gravel, 5001 Franklin Blvd., Eugene, $6,076. NOVA: T. C. Wildish, Eugene, $1,770. SWISSHOME: Roseburg Sand & Gravel, Box 1207, Roseburg, $13,500.

LB 7-12. Previous report 7-10

TRASK RIVER DAM— Hillsboro, Ore.

The City of Hillsboro has filed application to build a $1,500,000 earth-fill storage dam on the upper Trask River where it crosses Washington County's southwest corner. The structure would rise 94 ft. above river bed and measure 1,700 ft. across top and 120 ft. at base. Impounded water would be tunneled through a mountain pass into the Tualatin river. Some 12,600 acre-feet would be impounded in the reservoir. LC 7-12

★**SEWAGE PLANT— Klamath Falls, Ore.**

Award to L. H. Henshaw, 2260 Olive St., Eugene, $136,413, by City Council, City Hall, Klamath Falls, for constructing the secondary units of Klamath Falls sewage treatment plant. Plans by John W. Cunningham & Associates, 1112 Portland Trust Bldg., Portland. Figure previously reported was incorrect. CG 7-15. Previous report 7-9

▲**SLIDE AREA RESLOPING, PAVING— Lookout Point Reservoir, Ore.**

Two bids received by Corps of Engineers, Portland District, 6-28 Pittock Block, Portland, for resloping a slide area and paving on State Highway No. 58, Lookout Point Reservoir, Middle Fork Willamette River, Willamette River Basin, Ore.; CIVENG-35-026-58-223. Bids opened July 9. BIDS: Central Heating Co. of Oregon, Ltd., 102 High St., Eugene, $24,765; Wildish Construction Co., Box 345, Eugene, $24,287. Government estimate, $23,966.

CG 7-11. Previous report 7-1

▲**SEWER SYSTEM— Medford, Ore.**

Apparent low bid of R. A. Heintz Co., 211 N.E. Columbia Blvd., Portland, $427,973, was received by City Council, City Hall, Medford, for 55,000' (sched. A), and 12,000' (sched. B) sanitary sewers in the Kenwood-Grandview and Laurelhurst areas, Medford. All bids were referred to the next meeting of the city council. Bids opened July 11.

Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 1600 Western Ave., Corvallis. Engineer's estimate, $425,534. LC 7-16. Previous report 7-1

★**SEWER— North Bend, Ore.**

Award to Sig Andersson, N. 8th St., Coos Bay, $7,426, by City Council, City Hall, North Bend, for furnishing and installing 1120' of 8", 570' of 6" and 660' of 4" B & S concrete pipe, six manholes and excavating 970 c.y. for District No. 169. Bids opened June 24. LB 7-9. Previous report 7-1

■ **CLEARING— Oakridge, Ore.**

Planholders announced for clearing areas "N," "P" and "Q" totaling approximately 175 acres, Hills Creek Reservoir on the Middle Fork Willamette River approximately six to nine mi. southeast of Oakridge, Lane County; ENG-35-026-59-2. Bids will be opened 2 p.m., July 24, by Corps of Engineers, Portland district, 628 Pittock Block, Portland.

Planholders: L. C. Daniel, 745 E. 20th; Pape Bros., Inc., 1865 6th Ave. West; S. W. Groesbeck, Box 646. Of Eugene. La Velle Construction, 10430 S.E. Bush; G. Frank King, 331 N.E. 181st Place. Of Portland. Washington Utilities Construction, Blue River; Elco Company, Rt. 2, Box 187, Cornelius; Mack Slate, Jr., 632 Washington St., Albany; Miller Logging Co., Falls Creek; Harold F. Halstead, Box 157, Oakridge; Schutt Construction Co., Inc., Box 727, Springfield; Howard D. Austin, Box 785, Ashland; Athel Savage, Box 273, Idanha; H & M Construction Co., Box 664, Springfield; Stanley Wilt, Box 199, Corvallis; Cresto & Lamphier, Box 722, Oakridge; Brown Bros. Construction Co., 914 Columbus St., Albany. All Oregon.

Bergman & Son, 9072 51st Ave. N.E.; The Helmick Co., Box 6128. Of Seattle. R. E. Carson, 1026 Sandy Bend, Castle Rock; R. & P. Contractors, Inc., Star Rt. 1, Box 86, Shelton; C & S Construction Co., Rt. 4, Mt. Vernon; Bingen Sand & Gravel, Box 307, Bingen. All Washington. The Cattermole-Tretheway Contractors, Ltd., 837 West Hastings St., Vancouver, B.C., Canada. Grabaugh Land Clearing & Excavation, Box 53, Hathaway Pines; R. W. Byers, Box 67, Redding; Archie Tell, Box 346, Yuba City; R & P Contractors, Inc., Rt. 2, Box 602, Chico. All Calif.

CG 7-16. Previous report 7-3

■ **CLEARING AREA— Oakridge, Ore.**

Planholders announced for clearing area M totaling approximately 350 acres, at Hills Creek Reservoir on the Middle Fork Willamette River, approximately four mi. southeast of Oakridge, Lane County; ENG-35-026-59-1. Bids will be opened 2 p.m., July 22, by Corps of Engineers, Portland district, 628 Pittock Block, Portland.

Planholders: L. C. Daniel, 745 E. 20th; Pape Bros., Inc., 1865 6th Ave. West; S. W. Groesbeck, Box 646. Of Eugene. La Velle Construction, 10430 S.E. Bush; G. Frank King, 331 N.E. 181st Place. Of Portland. Elco Company, Rt. 2, Box 187, Cornelius; Howard D. Austin, Box 785, Ashland; Athel Savage, Box 273, Idanha; H & M Construction Co., Box 664, Springfield; Stanley Wilt, Box 199, Corvallis; Cresto & Lamphier, Box 722, Oakridge; Brown Bros. Construction Co., 914 Columbus St., Albany; Washinghton Utilities Construction, Blue River; Mack Slate, Jr., 632 Washington St., Albany; Miller Logging Co., Falls Creek; Harold F. Halstead, Box 157, Oakridge; Schutt Construction Co., Inc., Box 727, Springfield. All Oregon.

R. E. Carson, 1026 Sandy Bend, Castle Rock; The Helmick Co., Box 6128; Bergman & Son, 9072 51st Ave. N.E. Of Seattle. C & S Construction Co., Rt. 4, Mt. Vernon; R & P Contractors, Inc., Star Rt. 1, Box 86, Shelton. All Washington. The Cattermole - Tretheway Contractors, Ltd., 837 Hastings St., Vancouver, B.C., Canada. Grabaugh Land Clearing & Excavation, Box 53, Hathaway Pines; Archie Tell, Box 346, Yuba City; R & P Contractors, Inc., Rt. 2, Box 3602, Chico; R. W. Biers, P.O. Box 67, Redding. All California.

CG 7-16. Previous report 7-3

▲**SEWAGE IMPROVEMENTS— Oceanlake, Ore.**

Two bids received by Paul Glimes, city recorder, City Hall, Oceanlake, for sewer mains and appurtenances in newly-annexed area, roughly bounded by Dorchester House, Pixie Kitchen, U.S. Highway 101 and ocean. Original invitation gave city option of doing part of work with its own forces which was later withdrawn. Caufield & Caufield, consulting engineers, 402 Pearson Bldg., Portland. Bids opened July 9 and held under advisement. BIDS: Riverside Construction Co., 12441 S.E. Market St., Portland, $41,238; James G. Robertson, Rt. 1, Box 385 - A, Clackamas, Oregon, $48,267.

CG 7-12. Previous report 7-1

●**SANITARY SEWER— Oswego, Ore.**

Bids will be opened 8 p.m., July 21, in office of Lawrence D. Fish, clerk, School District No. 7, Clackamas County, Oregon, at Lake Oswego Junior High School, 2500 S.W. Market Road, Oswego, Oregon, for construction of a sanitary sewer from the Palisades Elementary School Building connecting to the City of Oswego sewer system on South Shore Blvd. in the school district. Plans with Whitney, Hinson and Jacobsen, architects, 512 Failing Bldg., Portland. $50 deposit. Certified check, cashier's check or bid bond 10%. CG 7-12

★**GRADING ACCESS ROAD—Portland, Ore.**

Award to George L. McNeilus, Box 404, Coos Bay, $32,200, by Bureau of Public Roads, 760 Morgan Bldg., Portland (Box 3900), for grading 3.845 mi. Oregon Timber Access Road Project BLM 40-A1, Canton Creek Road, Roseburg District, Douglas County, Ore. CG 7-5. Previous report 7-1

★**WIRE ROPE BLOCKS— Portland, Ore.**

Award to Paul E. Keeny Co., 1125 S.E. Grand Ave., Portland, $2,252, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for two wire rope single blocks with shackle parallel to the sheaver, and four with swivel operating in an independent crosshead, fob Portland; CIVENG-35-026-58-241. Bids opened June 30.

WB 7-8. Previous report 6-25

★**HANDRAIL— Portland, Ore.**

Award to Oregon Iron Works, 508 N. Tillamook St., Portland, $4,800, by city purchasing agent, 208 City Hall, Portland, for prefabricated and/or assembled handrail, 36 sections for Alexandra Ave. and 24 sections for N.E. Halsey St. viaduct.

WB 7-8. Previous report 6-20

★**AIR COMPRESSOR— Portland, Ore.**

Award to Nelson Equipment Co., 955 N.E. Union Ave., Portland, $7,107, by city purchasing agent, 208 City Hall, Portland, for

Classified Advertising

★

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four-wheel, trailer-mounted 250-CFM air compressor. Bids opened June 25.
WB 7-8. Previous report 6-14

★TOW TRUCK— Portland, Ore.
Award to International Harvester Co., 635 N.E. 2nd Ave., Portland, $6,117, by city purchasing agent, 208 City Hall, Portland, for one tow truck. Bids opened June 19.
WB 7-8. Previous report 6-12

★SEWER CONSTRUCTION—Portland, Ore.
Award to John Luyben & Son, 14005 N.E. Halsey St., Portland, $44,110, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for construction of sewers in Ara Vista Sewage District No. 1.
SG 7-11. Previous report 6-13

★STREET IMPROVEMENT—Portland, Ore.
Award to Logan, Taylor & Co., 7800 N.E. Killingsworth St., Portland, $31,286, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for grading, construction of rock base, surfacing with asphaltic concrete and construction of concrete curbs on N.E. 132nd Ave. and S.E. 117th Ave.; Proj. 311. CG 7-12. Previous report 6-19

★FENCE, RETAINING WALL— Portland, Ore.
Awards to San Jose Steel Co., 723 N. Tillamook St., Portland, $10,971, for installation of 3,500' of chain link fence at sewage disposal plant and to Birkemeier Construction Co., 14511 S.E. River Road, Milwaukie, $45,605, for construction of a reinforced concrete retaining wall on S.W. Corbett Ave., by city purchasing agent, 208 City Hall, Portland. CG 7-12. Previous report 7-5

★STREET IMPROVEMENTS—Portland, Ore.
Award to Portland Road & Driveway Co., 7925 S.E. King Road, Portland, $11,682, by Will Gibson, city auditor, City Hall, Portland, for improvement of S.E. 24th Ave. from Raymond to Schiller.
CG 7-12. Previous report 6-20

▲JETTY ROAD, PARKING AREA— Portland, Ore.
Five bids received by Oregon State Game Commission, 1634 S.W. Alder St., (Box 4136), Portland, for grading and graveling on Clatsop Spit to Columbia Jetty, .7 mi. grading, 2.5 mi. grading and graveling an 18' wide roadway, two parking areas, 150'x25' and 400'x125', included, about 20 mi. from Astoria in the old Fort Stevens area. Bids opened July 9. TWO LOW BIDS: F. E. Wilburn, 924 "E" St., Springfield, $24,465; LaVelle Const. Co., 10430 S.E. Bush, Portland, $29,030. HI: John H. Bostick, 990 Williams Road, Eugene, $41,882. CG 7-12

▲STREET IMPROVEMENTS—Portland, Ore.
Bids received for two street improvement projects by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland. Bids opened July 10. PROJ. 315—Resurfacing with M-2 bituminous macadam on Rock Creek Rd. from Old Cornelius Pass to Skyline Blvd., and Elliott Road from Rock Creek Road to Skyline Blvd. ONLY TWO BIDS: Horton Construction Co., 312 N. Schmeer Rd., Portland, $33,512; Oregon Asphaltic Paving Co., 0441 S.W. Porter, Portland, $37,062. PET. 505—Grading, constructing rock base, constructing concrete curbs and paving with asphaltic concrete in the Wilcox Estates area (S.W. Windsor Court, etc.). Four bids received. TWO LOW: Cascade Construction Co., Ft. S.W. Abernathy, Portland, $29,945; Oregon Asphaltic Paving Co., $30,592. HI BID: Wm. E. McCord, 18735 S.W. Bryant Road, Oswego, $31,722.
CG 7-12. Previous report 7-2

●STREET IMPROVEMENTS— Portland, Ore.
Bids will be opened 10:30 a.m., July 24, by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for three street improvement projects: Proj. No. 300—Grade, rock, construct concrete curbs, driveways and pave with asphaltic concrete portions of N.E. Beech Street, N.E. 124th Ave., N.E. 125th Ave. and N.E. 126th Ave. Proj. 298—Grade, rock, construct concrete curbs and pave with asphaltic concrete at N.E. 143rd Ave. from N.E. Halsey St. north to N/L of Weidler St. and N.E. Weidler St. from N.E. 143rd Ave. to N.E. 142nd Ave. Proj. D-299—Grade, place rock base, construct concrete curbs and driveways and surface with asphaltic concrete on N.E. 127th Ave. from N.E. Morris St. north to north end of the cul-de-sac project. Plans with roadmaster's office, 2115 S.E. Morrison St. $2 charge each project. Certified check or bid bond 10%. CG 7-15

★CAST IRON WATER PIPE—Portland, Ore.
Award to U.S. Pipe & Foundry Co., Colman Bldg., Seattle, $98,418, by city purchasing agent, 208 City Hall, Portland, for furnishing 6", 8" and 12" cast iron mechanical joint class 150 pipe.
CG 7-12. Previous report 7-5

★TRUCK— Portland, Ore.
Award to Mercury Manufacturing Co., Chicago, $12,280, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for one truck; CIVENG-35-026-58-243.
CG 7-15

▲GRADING, GRAVELING— Portland, Ore.
Two bids received by Oregon State Game Commission, 1634 S.W. Alder St., (Box 4136), Portland, for grading and graveling to provide a parking area and boat ramp at Shinglehouse slough adjacent to Highway 101 about five miles south of Coos Bay. Approximately 2400 cu. yds. gravel will be required for the 200'x250' parking area. BIDS: Robert Angell, Box 288, East Side, Ore., $13,345; F. E. Wilburn, 824 "E" St., Springfield, $13,915. CG 7-15

●BLACKHOE LOADERS— Portland, Ore.
Bids will be opened 2 p.m., July 24, by L. W. Rayner, city purchasing agent, 208 City Hall, Portland, for two gasoline powered industrial type blackhoe loaders with 19" buckets and 12' digging depth for Bureau of Water Works. Certified check or bid bond 10%. CG 7-15

●TRACTOR-DOZER— Portland, Ore.
Bids will be opened 2 p.m., July 25, by L. W. Rayner, City purchasing agent, 208 City Hall, Portland, for a diesel powered tractor with straight blade bulldozer for the Bureau of Sewage and Refuse. Certified check or bid bond 10%. CG 7-15

▲CONCRETE RESERVOIR—Portland, Ore.
Seven bids received by city purchasing agent, 208 City Hall, Portland, for construction of 1,000,000-gal. prestressed concrete reservoir, Arlington Heights, above new zoo in Hoyt Park. TWO LOW: E. E. Settergren, 3723 S.E. 21st Ave., $61,933; George A. Moore & Assoc., 923 S.W. 17th, $64,894. HI: Teeples & Thatcher, 8850 S.E. Otty Road, $75,652. All of Portland. CG 7-15

▲CLEARING, ACCESS ROADS— Portland, Ore.
Seven bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for clearing right-of-way and constructing access roads for the Finn Rock-Leaburg section of the Cougar-Currin 115-kv line No. 1, Lane County; Inv. No. 8803. LOW BIDS: Murray Brothers Construction Co., 1260 E. 1st, Bend, $120,109; Cattermole-Tretheway, 8337 W. Hastings, Vancouver, B.C., $232,121. HI: Washington Utilities Construction Co., 1203 Regents Blvd., Tacoma, Wash., $579,098.
CG 7-15. Previous report 7-10

●GRADING, BITUMINOUS SURFACING— Portland, Ore.
Bids will be opened 10 a.m., July 30, by Bureau of Public Roads, 824 Morgan Bldg., Portland, for grading and bituminous surfacing, 2.262 mi., Oregon Forest Highway Project 26-C5, Wapinitia Highway, Mt. Hood National Forest, Wasco County, Ore. Plans with above office.
Quantities: 25 acres clearing and grubbing; 183,000 c.y. excavation; 55,000 tons crushed aggregate base; 57 tons asphalt, prime, RC-2; 46 tons emulsified asphalt, RS-2; 167 tons asphalt cement, 120-150 penetration; 132 c.y. class A concrete; 21,000 lbs. reinforcement steel; 1,700' culvert pipe.
RM 7-9

▲HEATER-PLANER— Portland, Ore.
Two bids received by L. W. Rayner, city purchasing agent, 208 City Hall, Portland, for asphalt heater-planer. Bids opened July 14.
ONLY BIDS: Guthrie Machinery Co., 824 N.E. Lombard, Portland, $15,998; Feenaughty Machinery Co., 112 S.E. Belmont, Portland, $19,120. CG 7-16. Previous report 7-1

●PRINEVILLE DAM— Prineville, Ore.
Bids will be opened 10 a.m., P.S.T., August 12, by Bureau of Reclamation, in the court room of the Crook County Courthouse, Prineville, for construction of 790' long crest, 180' high 153,000-acre ft. storage capacity, earth fill dam on the Crooked River about 21 mi. southeast of Prineville. Spec. No. DC-5047. Specifications with W. L. Karrer, project construction engineer, Box 477, Prineville; H. T. Nelson, regional engineer, Box 937, Boise, Idaho; in Bldg. 53, Denver Federal Center, Denver, Colo.
Features of work include spillway consisting of an approach channel, concrete crest structure, chute, stilling basin and outlet channel; outlet to consist of a concrete intake structure, concrete-lined tunnel with a gate chamber for four 4' by 6' high pressure gates, access shaft and shaft house; ½ mi. access road.
Quantities: 1,465,800 c.y. excavation; 870,000 c.y. earth fill; 78,000 c.y. place sand, gravel; 168,000 c.y. placing rock-fill; 2,200 of 4" to 24" sewer pipe.
Bids were previously scheduled to be opened June 12 but bid opening was postponed. LB 7-15. Previous report 5-14

★STATE HIGHWAY PROJECT—Salem, Ore.
Award to Morrison-Knudsen Co., Inc., 600 Hoge Bldg., Seattle, $2,554,745, by Oregon State Highway Commission, Salem, for grading 3.21 Hooskanaden Creek-Thomas Creek section, 8 mi. north of Brookings, Curry County; FAP No. BF-124(14). Bids opened May 29.
LB 7-11. Previous report 6-2

▲STATE HIGHWAY PROJECTS— Salem, Ore.
Bids received July 10 by Oregon State Highway Commission, Salem, for 33 highway construction projects. All bids will be referred to the highway commission for award at its next meeting in Salem on July 31.
GRADING, PAVING, H St.-Broadway Ave.—Grading, paving, 0.76 mi. Baker Section of Old Oregon Trail Highway in Baker, Baker County; FAP DU-154(9).
ONLY BID: Arthur Simonsen, Baker, $152,537.
REINFORCED CONCRETE BRIDGE, Plympton Creek—Reinforced concrete slab bridge, three-slab spans, 40' roadway on Wauna-Westport Section of Columbia River Highway, Westport, Clatsop County; FAP DF-221(5).
LOW BIDS: R. H. Jones, Route 1, Box 258, Hillsboro, $24,825; Richard L. Martin, Foothills Road, Portland, $25,242; Pettijohn Engineering, 4145 N.E. Cully Blvd., Portland, $25,757.
BRIDGES, Coon Creek, Pebble Creek—Reinforced concrete bridge on timber piles, 24' roadway, five spans totaling 125' over Coon Creek; 7 spans totaling 175' over Pebble Creek, Pebble Creek County Road, Vernonia; Columbia County; FAP S-394(1).
LOW BIDS: Richard L. Martin, Portland, $53,666; George W. Erwin, Canby, $56,937; Teeples & Thatcher, 8850 S.E. Otty Road, Portland, $56,969.
PAVING, Oak Ranch Creek—Pave 6.0 mi. section of the Apiary Road, furnish crushed materials on stockpile, 9 mi. north of Vernonia, Columbia County; FAP No. S-129(2).
LOW BIDS: Warren Northwest Co., Inc., Box 5072, Portland, $98,401; E. C. Hall Co., 12012 S.W. Barbur Blvd., Portland, $108,534; Babler Bros., 4617 S.E. Milwaukie, Portland, $109,520.
GRADING, OILING, Bullards Bridge—Grade, oil 1.88 mi. Bandon Section of Oregon Coast Highway, north of Bandon, Coos County; FAP No. DF-109(8).

LOW BIDS: Blaisdell & Son Construction Co., 8225 S.E. Cornwell, Portland, $267,327; McNutt & Sons, Inc., 542 W. 11th, Eugene, $282,690; C. R. O'Neil, 1944 Fruitdale Drive, Grants Pass, $289,504.

UNDERCROSSING, Fahy Ave.—Oregon Coast Highway in Bandon, Coos County; FAP No. DF-109(8).

ONLY BIDS: Sig Andersson Construction Co., N. 8th, Coos Bay, $29,841; Coos Bay Dredging Co., Box 217, Coos Bay, $32,345.

GRADING, Middle Unit, Paulina—Grade 3.89 mi. Paulina-Trout Creek and Trout Creek sections of Paulina - Logdell Road, southeast of Paulina; FAP No. DS-363(4).

LOW BIDS: Blaisdell Construction, Portland, $23,307; Keystone Construction, Prineville, $23,703; Frank G. King, 5828 S.W. Long, Portland, $23,901.

BRIDGES, Lonerock Creek and Eight Mile Canyon—One 70' reinforced concrete slab bridge on Lonerock Creek at Lonerock, two 60' bridges of precast concrete deck panels on Eight Mile Creek 8 mi. southeast of Arlington, other crossing it 6 mi. farther south, Gilliam County; FAP DS-131(3), S-384(1), S-393(1).

LOW BIDS: Marshall Construction, 40 W. Ridgeway, Hermiston, $47,486; Valley Construction Co., 6100 N.E. Columbia, Portland, $50,092; John L. Jersey, 3647 S.E. 34th Place, Portland, $53,320.

OILING, Hood River County Roads—Oil 2.5 mi. on three county roads near Hood River and Odell; FAP DS-387(1), DS-388(1), DS-389(1).

LOW BIDS: Hornton Construction Co., 312 N. Schmeer Blvd., Portland, $18,615; Russell Olson, Box 272, Pendleton, $20,614; Babler Construction Co., 4617 S.E. Milwaukie, Portland, $22,430.

OILING, Juniper Lane-Fir Lane—Oiling and stone base 4.25 mi. section of the Adams Drive County Road, 8 mi. north of Madras, Jefferson County; FAP S-368(2), DS-368(3).

ONLY BID: Porter W. Yett, 6500 N.E. Ainsworth St., Portland, $63,019.

BRIDGE, Rogue River Bridge—605' welded steel girder bridge with concrete deck girder approaches on Pacific Highway at Grants Pass, Josephine County; FAP U-131(19).

LOW BIDS: Peter Kiewit Sons' Co., 405 E. Main, Medford, $349,305; Wayne Construction Co., 3810 Stoen Way, Seattle, $355,620; Hamilton & Thoms, Box 726, Eugene, $367,-932.

BUILDING, Chemult Maintenance building—30'x36' masonry block shop addition with aluminum roof, Klamath County; State Project.

LOW BIDS: Enoch I. Maerz, 3936 Hayesville Drive S., Salem, $15,987; Endicott Logging So., $18,430; H. G. Wirtz, 2000 Highway 99, Grants Pass, $18,685.

OILING, Willamette Jct.-Diamond Lake Jct.—Oil 10.12 mi. and furnish crushed rock in stockpile section of the Dalles-California Highway, 57 mi. south of Bend; Klamath County; FAP Nos. DF-126(5), DF-320(7).

ONLY BIDS: Newport Construction Co., 7031 N.E. Halsey, Portland, $161,084; Babler Bros. Inc., 4617 S.E. Milwaukie Ave., Portland, $177,324.

GRADING, PAVING, Klamath Falls—Grade, pave 2.09 mi. section of The Dalles-California Highway, in Klamath Falls; Klamath County; FAP No. U-205(9).

LOW BIDS: Rogers Construction Co., 11760 N.E. Glisan, Portland, $683,158; Peter Kiewit Sons' Co., Box 1034, Klamath Falls, $684,655; White Bros. Construction Co., Inc., Box 376, Walla Walla, $693,793.

GRADING, Twin Buttes - Belts Road — Grade 3.73 mi. Pacific Highway, about 6 mi. east of Harrisburg, Linn County; FAP I-5-4(18) 211.

LOW BIDS: Earl L. McNutt Construction Co., Eugene, $409,491; Roy Houck & Son, 1585 N. 20th St., Salem, $461,719; S. W. Groesbeck, 2387 Alder, Eugene, $485,216.

BRIDGE, Calapooya River — Linn West Road near Pacific Highway, 11 mi. south of Albany, Linn County; FAP I-5-4(16)215.

LOW BIDS: Hamilton & Thoms, Eugene, $23,276; Valley Construction Co., Portland, $24,490; Hannan Bros., 3525 N.E. Going, Portland, $26,211.

STRUCTURES, North Albany Interchange —Five reinforced concrete structures at Know Butte Road intersection with Pacific Highway, Linn County; FAP I-5-4(12)233.

LOW BIDS: S & D Construction Co., 4827 N.E. 104th, Portland, $209,841; Tom Lillebo, 542 Greenwood, Reedsport, $215,411; Peter Kiewit Sons' Co., Box 1777, Vancouver, $221,-123.

STRUCTURE, south Santiam Interchange — Construction 309' reinforced concrete structure with 70' roadway over the Pacific Highway, Linn County; FAP No. I-5-4(12)233.

LOW BIDS: Hamilton & Thoms, Eugene, $177,355; S & D Construction Co., Portland, $177,461; Tom Lillebo, Reedsport, $184,406.

GRADING, Ontario-Idaho Line — Grade 3.74 mi. Old Oregon Trail Highway, Ontario, Malheur County; FAP I-82-8(6)372.

LOW BIDS: Roy L. Houch, Salem, $652,075; Rogers Construction Co., $743,738; Peter Kiewit Sons' Co., Vancouver, $783,644.

GRADING, OILING, "D" St. - Center — Grade, oil 0.25 mi. section on Rose Ave. east of Salem, Marion County, a State Project.

LOW BIDS: M. J. Brassfield, Salem, $12,-660; Central Paving Co., Box 38, Independence, $13,024; Salem Sand & Gravel, 1405 N. Front, Salem, $13,535.

GRADING, PAVING, Oregon Centennial Grounds—Grade, pave access roads near the P-I Bldg. in Portland, Multnomah County, a State project.

LOW BIDS: Warren Northwest Co., Inc., Box 5072, Portland, $50,422; K. F. Jacobsen Co., Inc., 1211 N. Loving, Portland, $68,964; Oregon Asphalt Paving Co., 0441 S.W. Porter, Portland, $79,607.

OFFICE BUILDING, East Portland—Remodel existing Howard Cooper Bldg. at N.E. 58th Ave. and N.E. Glisan St., Portland, Multnomah County, State project.

LOW BIDS: Monson & Sivers, 5000 S.E., 25th Ave., Portland, $39,940; Charles S. Camplan Co., 2035 S.W. Beaverton, Portland, $42,500; Fred W. Carter Co., 2602 N.E. Alberta, Portland, $42,990.

ILLUMINATION, Interstate Bridge—Illumination of Pacific Highway-Oregon Slough Section, Multnomah County, State project.

LOW BIDS: Ace Electric Co., 3525 N.E. Broadway, Portland, $13,826; Rochat Electric, 4636 N. Williams, Portland, $14,852; W. R. Grasel, 437 N.W. 16th, Portland, $15,490.

MEDIAN, 42nd Ave.-122nd—6.88 mi. median barrier on Willamette River bridge sections of Columbia River and Pacific Highways, Multnomah, Clackamas counties; FAP I-82-1(4)2., I-5-5(9)284.

LOW BIDS: Hannan Bros., Portland, $130,-839; Babler Bros., Portland, $141,499; R & M Construction Co., 136 Main, Central Point, $141,667.

PAVING, VALLEY Jct.-Wallace Bridge—3.52 mi. Valley Junction-Sheridan Section of Salmon River Highway, 2 mi. west of Willamina, Polk County; FAP No. F-300(14).

LOW BIDS: Warren Northwest, Portland, $325,161; Charles T. Parker, Builders Exchange Bldg., Portland, $328,245; J. C. Compton Co., Box 86, McMinnville, $342,576.

PAVING, Cherry Ave. and James St.—Pave 0.15 mi. and stone base Willamina section in Willamina, Polk County, City project.

ONLY BIDS: Central Paving Co., Box 38, Independence, $11,030; Salem Sand & Gravel, Salem, $11,473.

GRADING, OILING, McKinley Moorage-Radio Station—0.22 mi. section of the Netarts Highway, 1 mi. west of Tillamook, Tillamook County; State project.

ONLY BIDS: Dolan Construction Co., Box 113, Tillamook, $12,070; Harold G. La Velle, 3629 S.E. 63rd, Portland, $13,165.

GRADING, Glover-Perry—Grade 7.25 mi., stone base, oil 3.51 mi. of Old Oregon Trail Highway, 8.5 mi. southeast of Kamela, Union County; FAP I-82-6(12)247.

LOW BIDS: Morrison Knudsen Co., Box 450, Boise, $1,416,815; Rogers Construction Co., 11760 N.E. Glisan, Portland, $1,449,615; Charles T. Parker, Portland, $1,522,453.

OILING, Iowa School—4.32 mi. Island City section of the Hunter Lane Road, north from Island City, Union County; FAP No. DS-75(4).

ONLY BIDS: Russell Olsen, Stanger Bros. Bldg., Pendleton, $18,926; J. C. Compton, Box 86, McMinnville, $20,663.

PAVING, Lombard St.—0.68 mi. Beaverton section in Beaverton, Washington County, City project.

LOW BIDS: Warren Northwest Inc., Portland, $18,707; K. T. Jacobsen, Portland, $19,-562; L. H. Kobb, Beaverton, $20,486.

TRAFFIC SIGNALS, Forest Grove—Install and revise traffic signals at ten intersections on Pacific and 19th Ave., Washington County; State project.

ONLY BIDS: Trowbridge & Flynn Electric Co., 214 W. Main St., Medford, $28,895; Electric Corp., 1270 Wilbur St., Salem, $29,-580.

SURFACING, Spray—Construct 8.34 mi. stone surfacing on north unit of Spray-Waterman section of Spray-Waterman Road, south from Spray, Wheeler County; FAP S-175(3), DS-175(4).

LOW BIDS: Silver Falls Construction Co., Silverton, $76,477; E. H. Itschner, Route 3, Box 48, Mollala, $78,982; F. E. Wilburn, $81,793.

BRIDGE, APPROACHES, Salt Creek (Whiteson) Bridge—200' bridge and approaches on Whiteson Road near Pacific Highway West, Yamhill County, FAP No. S-386(1).

LOW BIDS: Valley Construction Co., Portland, $74,134; Inland Construction Co., Box 416, Miles City, $74,606; Burkemeir Co., $76,304. LB 7-11. Previous report 6-27

▲STREET IMPROVEMENTS—Salem, Ore.

Bids received July 10 by Marion County Commissioners, Courthouse, Salem, for three street improvement projects including excavation, grading, paving, storm culverts. LOW BIDS: 1—Filbert St. N.E. from Alder St., north two blocks and Troy Ave. N.E. between Brooks and Filbert streets in Hick-Jones subdivision, Salem Blacktop Co., 1815 2nd St. S.E., Salem, $9,961; 2—Leo St. N.E. from Gary St. to Bonneville Ave. in Arnold subdivision, American Asphalt Paving Co., 3000 Cherry Ave. N.E., Salem, $5,158; 3—Douglas Ave. and Lawrence St. S.E. in Tri - Mountain View subdivision, Salem Blacktop, $15,111. CP 7-15. Previous report 7-5

●PAVING— Salem, Ore.

(Estimated cost $30,000)

Bids will be opened at 3 p.m., July 28, by the Salem Public Schools District, office of Business Manager, 1308 Ferry St., Salem, for furnishing and installing 24,528 sq. yds. of asphaltic concrete paving at the following schools: Swegle, Four Corners, Highland, Hoover, Morningside, Pringle elementary schools; three projects at North Senior High; Judson and Waldo junior highs. Paving to be from 1" to 2" in thickness and all projects except the Swegle school and one 700 yd. job at North High, to be on 4" base. Completion date September 5. CP 7-15

★STATE HIGHWAY PROJECT—Salem, Ore.

Award to Russell Olson Construction Co., Box 272, Pendleton, $27,734, by Oregon State Highway Commission, Salem, for 9.78 mi. grading, Lancaster Drive-Sublimity Gun Club Section, Marion County, North Santiam Highway; FAP Nos. S-220(12) and S-265(6). Bids opened May 29. LB 7-16. Previous report 6-25

★STATE HIGHWAY PROJECT—Salem, Ore.

Award to Monson & Sivers, 5000 S.E. 25th Ave., Portland, $39,940, by Oregon State Highway Commission, Salem, for remodeling existing Howard Cooper Bldg. at N.E. 58th Ave. and N.E. Glisan St., Portland, Multnomah County. Bids opened July 10. LB 7-16. Previous report 7-11

★PAVING— Springfield, Ore.

Award to Wildish Construction Co., Box 345, Eugene, $90,164, by City Council, City Hall, Springfield, for paving Mill St. leading from Main St. (U.S. Highway 126) to the north city limits. Bids opened July 2. RM 7-12. Previous report 6-19

★TRACTOR— The Dalles, Ore.

Award to International Harvester Co., Washington, D.C., $6,691, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for one gasoline driven, rubber-tired tractor, complete with attachments, fob The Dalles Dam, Ore.; CIVENG-35-026-58-217. CG 7-15. Previous report 6-10

■TRANSMISSION LINE—The Dalles, Ore.

Planholders announced for construction of ten mi. of 69-kv., 3/OACSR transmission

line and a 5,000 kva., 69-KV to 7.2/12-5-kv. substation from Klondike to John Day dam site, Sherman County. Bids will be opened 8 p.m., July 24, by the Wasco Electric Co-operative, Inc., Eric A. Johnson, manager, 105 E. Fourth St., The Dalles. Plans with engineer, Robert Welty, Box 282, The Dalles. $10 deposit.

Planholders: Power Line Erectors, Inc., 2018 Waterworks, Spokane; Lebanon Electric, 66 Sherman Ave., Lebanon, Ore.; Duke's Electric, Inc., Bldg. 35, Pasco Airport, Pasco; R. C. Hughes Co., Box 216, Parkwater Station, Spokane; George Chica Co., E. 2917 Sharp Ave., Spokane; Collins Electrical Co., Inc., Box 1609, Stockton, Calif.; Bonneville Construction Co., Box 900, Idaho Falls, Ida.; Power City Electric, Inc., N. 920 Howard, Spokane; Witzig Construction Co., Box 292, Corvallis, Ore.; Slater Electric Co., 608 Sutter St., Folsom, Calif.; Key Construction Co., 1601 Taylor Way, Tacoma; Kehne-Crabtree Electric Co., Inc., E. 3801 Riverside, Spokane; Wilson Construction Co., 14714 N.E. Hancock, Portland; Nichols Construction Co., Box 336, Grandview, Wash.; Estep Line Construction, Route 8, Box 745, Yakima; Rex Lanham, Box 1228, Pocatello; Ritter Construction Co., 4815 S.W. Macadam, Portland; Kimball Construction Co., P.O. Box 772, Redding, Calif.; G. W. Brown, Terry, Mont.; Larned Construction Co., 2124 N. Waterworks, Spokane.

RB 7-15. Previous report 7-9

▲LEVEE SYSTEM— Tillamook Bay, Ore.

Seven bids received by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for raising and strengthening existing levee; placing dumped stone revetment, extending designated drainage structures; Stillwell Drainage District, one mi. west of Tillamook; CIVENG-35-026-58-242. Bids opened July 11. TWO LOW BIDS: Verne Jarl, Box 507, Gresham, Ore., $104,020; Roy D. Hutton and Erwin J. Weldon, 8407 S.E. 82nd Ave., Portland, $137,349. HI: Q. L. Rufener, Inc., 4729 S.E. Ash., Portland, $187,970. Government estimate, $156,485.

CG 7-15. Previous report 7-8

▲STREET OILING— West Linn, Ore.

Bids received by City Council, City Hall, West Linn, for oiling various streets in West Linn with approximately 25,000 sq. yd. asphaltic surface. Bids opened July 9. LOW BIDS: Owen F. Snyder, Tigard, $6,750; Portland Road & Driveway, 7295 S.E. King Rd., Portland, $7,650; Parker & Fuhrman, 11524 S.E. Foster Road, Portland, $7,100.

RM 7-12. Previous report 6-24

WASHINGTON

★CONTROL, TELEMETERING EQUIPMENT (Water System)—Anacortes, Wash.

Award to Westinghouse Electric Corp., 3451 E. Marginal Way, Seattle, $6,560, by City Manager, City Hall, Anacortes, for furnishing automatic control, supervisory and telemetering equipment and other items for the city water supply system. Consulting engineers: Carey & Kramer, 1917 1st Ave., Seattle.

LB 7-5. Previous report 6-24

★CRUSHED GRAVEL— Auburn, Wash.

Award to Meade Sand & Gravel, 24800 Pacific Highway S., Des Moines, no amount released, by King County Commissioners, 402 County City Bldg., Seattle, for furnishing 5,000 yd. ¾" minus crushed gravel in vicinity of Auburn. Bids opened July 14.

LB 7-16. Previous report 7-5

●DRAINAGE ALTERATIONS— Bellevue, Wash.

Bids will be received until 2 p.m., July 24, by Bellevue School District No. 405, George B. Brain, superintendent, Main St. and 102nd N.E., Bellevue, in office of Bouillon, Griffith & Christofferson, consulting engineers, 1411 Fourth Avenue Bldg., Seattle, for alterations to existing sewage disposal drain field at Highland Junior High School, 15027 N.E. Bellevue-Redmond Road, Bellevue. Plans and specifications with the engineers. $10 deposit. PD 7-16

★WATER MAIN INSTALLATION— Bellingham, Wash.

Award to C. V. Wilder Construction Co., 1840 State St., Bellingham, $13,430, by City Council, City Hall, Bellingham, for installing a 12" cast iron water main, valves, fittings on Electric Ave., Bellingham. Consulting engineers: John W. Cunningham & Associates, 714 Portland Trust Bldg., Portland. Bids opened July 7.

ET 7-10. Previous report 7-1

BRIDGES— Bellingham, Wash.

A study of bridge replacement needs will be made by the Board of Public Works, City Hall, Bellingham, in order to establish a priority list for needed construction. Funds may be available from the $200,000 general obligation bond issue voted on earlier this year.

ET 7-10

▲STORM SEWER— Camas, Wash.

Six bids received by city clerk, Dale Scarbrough, City Hall, Camas, for installation of 2,650' concrete sewer pipe, 12" to 24", for storm sewer on N.E. Garfield St. from S.E. 3rd Ave. North to N.E. 15th Ave., Camas. Bids opened July 10. BIDS: James Robertson, Route 1, Box 385 A, Clackamas, Ore., $21,783; Don Thornton, Route 7, 4102 N.W. D, Vancouver, $22,204; Merlin Lowe, 1608 Buchanan, Kelso, $22,798; Paul Ferneding, 2115 E. 37th St., Vancouver, $23,968; Smith Bros. Construction Co., 3801 4th Plain Road, Vancouver, $24,205; Riverside Construction Co., Box 3853, Portland, $24,991.

LB 7-16. Previous report 7-1

●ROCK REVETMENT— Chelan County, Wash.

Bids will be opened 2 p.m., P.S.T., July 25, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for rock revetment near tower 530 on the Chief Joseph-Snohomish lines 1 and 2, approximately one mi. east of Merritt, Chelan County; Inv. No. 8841. Plans with above office. 25% bid bond. Job includes 550 c.y. furnish, haul and place rock for revetment.

LB 7-16

★BRIDGE— Columbia County, Wash.

Award to low bidder Walter G. Meyers & Sons, N. 1407 Kalispell, Spokane, $7,466, by State Department of Game, 509 Fairview Ave. N., Seattle, for constructing reinforced concrete bridge over Tucannon River, Columbia County, at the Wooten Game Range, about 12 mi. from Pomeroy and 25 mi. from Dayton; Inv. No. GA-R-514. Five bids were received at July 10 bid opening. SECOND LOW: Albert Land, Waitsburg, $11,495. HI: United General Constructors, Box 397, Seattle, $18,650. PD 7-12. Previous report 7-5

★JOHN DAY DAM (First Step Cofferdam) Columbia River, Wash.

Award to Morrison-Knudsen Co., Inc., and Le Boeur-Dougherty Co., 603 Hoge Bldg., Seattle, $1,395,885, by Corps of Engineers, Walla Walla office, Bldg. 602, City County Airport, Walla Walla, for construction of the first step cofferdam for John Day Lock and Dam on the Columbia River at river mile 215.7, about six mi. upstream from Maryhill, Klickitat County, Wash.; CIVENG-45-164-58-53. LB 7-12. Previous report 7-2

●WATER, SEWER SYSTEMS— Coulee Dam, Wash.

Bids will be opened 3 p.m., P.S.T., July 29, by Coulee Dam National Recreation area, Superintendent, Coulee Dam, for construction of water and sewer systems at Kettle Falls area, Coulee Dam National Recreation Area, Coulee Dam. Plans with above office.

Quantities: 120' of 1" galvanized water pipe; 15' of 4", 1,760' of 6" cement asbestos water line; septic tank; 25' of 4", 670' of 6" and 55' of 8" vitrified clay sewer line; 40' of 6" cast iron sewer line; 100 c.y. trench excavation.

LB 7-16

▲SEWAGE SYSTEM— Cowiche, Wash.

Six bids on Schedule A and seven bids on Schedule B were received by Town Council, Town Hall, Cowiche, for sanitary sewer system involving trunk laterals and service line (Sched. A) and sewage lagoon (Sched. B) at Cowiche. Plans by Gray & Osborne, consulting engineers, 228 S. 2nd St., Yakima. Bids opened July 7. LOW BIDS—SCHED. A: De Blasio Bros., Route 4, Yakima, $14,526; E. M. Gostovich, Sunnyside, $16,795; Nate Kimball, 1019 Pleasant Ave., Yakima, $17,409. SCHED. B: McCormack Construction Co., Roza Vista Place, Terrace Heights, Yakima, $8,888; H & S Construction Co., Yakima, $10,099; E. M. Gostovich, Sunnyside, $10,152. Contract will be awarded to the low bidders contingent upon federal funds.

IG 7-11. Previous report 6-17

★STREET IMPROVEMENT, SANITARY SEWER— Edmonds, Wash.

Award to M & S Construction Co., 12736 18th N.E., Seattle, $11,034, by City Council, City Hall, Edmonds, for grading and gravelling and for furnishing and installing 1,200' of 8" sanitary Sewer in LID No. 85, on Walnut St. in Edmonds. Plans by James H. Reid & Associates, 324 Main St., Edmonds.

LB 7-11. Previous report 7-8

●SANITARY SEWER— Edmonds, Wash.

Bids will be opened 8 p.m., August 5, by City Council, City Hall, Edmonds, for construction of a sanitary sewer in east part of Edmonds, involving 3,400' of 8" concrete sewer pipe; LID No. 86.

Plans and specifications available on or about July 22 with James H. Reid & Associates, consulting engineers, 324 Main St., Edmonds. $10 deposit.

PD 7-19

●ASPHALT CONCRETE PAVING, CURBS— Edmonds, Wash.

Bids will be opened 8 p.m. July 22, by City Council, City Hall, Edmonds, for furnishing and installing concrete curbs, and asphaltic concrete paving on 6½ St. (LID No. 87), on Alder St. from 9th to 11th streets (LID No. 88), and on Laurel Way easterly of 11th street (LID No. 89). Separate contracts for each project. $10 deposit each contract.

Plans and specifications available on and after July 14 with James H. Reid & Associates, consulting engineers, 324 Main St., Edmonds.

QUANTITIES — 6½ St.: 2,900' concrete curbs; 560 ton asphaltic concrete; 15 manholes. ALDER ST.: 2,440' concrete curbs; 650 ton asphaltic concrete. LAUREL WAY: 950' concrete curbs, 80 ton asphaltic concrete.

PD 7-12

▲FIRE SIGNAL EQUIPMENT— Everett, Wash.

Two bids received by Everett City Commissioners, City Hall, Everett, for installation of fire and police signal alarm equipment, and trenching and installation of lines on five city streets. Bids opened June 27. ONLY BIDS: Venne Beauchamp, Box 637, Everett, $5,188; Shaffer Construction Co., Box 804, Everett, $5,315.

HH 7-2. Previous report 6-11

▲WATER PIPELINE— Everett, Wash.

Ten bids received by City Council, City Hall, Everett, for installing pipe in Unit No. 2 of Sultan River transmission pipeline. Bids opened July 10. Plans by John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland, Ore. LOW BID: Engineers Limited Pipeline Co., 2021 Minor N., $1,422,268 (steel pipe), $1,353,288 (concrete pipe). OTHER BIDS: Frank Colaccio Construction Co., 7778 Seward Park Ave., $1,555,974, $1,330,749; Garrett & Shafer, 222 1st Ave. S., $1,548,486, no bid; Valley Construction Co., 7722 Rainier Ave., and Morrison-Knudsen Co., Inc., Hoge Bldg., joint venture, $1,466,210, $1,331,460; Alton V. Phillips Co., 4055 21st W., $1,598,015, $1,461,340; Paul Jarvis, Inc., 1070 W. Ewing, no bid, $1,348,950; E. D. Hanson Construction Co., 922 N. 127th, $1,611,359, $1,398,454; Scheumann & Johnson, Lloyd Bldg., $1,537,470, $1,410,421; S. S. Mullen, Inc., Box 3886, Terminal Annex, $1,486,350, no bid; Butler Brothers, 3419 13th S.W., $1,503,100, $1,426,100. Engineering estimate, $1,479,600.

HH-7-11. Previous report 7-1

▲PUMPER, TANK— Everson, Wash.

Six bids received by Whatcom County Fire District No. 1, City Hall, Everson, for a 750-gal. tank with apparatus, in Everson on Nugent's Bridge. Bids opened July 14

LOW BIDS: Everson Service Center, Everson, $4,115; Everson Motor, Everson, $4,965; HI: Howard Cooper, 5055 4th S., Seattle, $21,782. LB 7-16. Previous report 6-27

★GRADING, PAVING, UNDERGROUND ELECTRICAL WORK—
Fairchild Defense Area, Wash.

Award to John P. Hopkins Co., Inc., Box 347, Mercer Island, $729,340, by U.S. Corps of Engineers, 1519 S. Alaskan Way, Seattle, for 1958 facility modifications involving grading, paving and underground electrical work, also minor structures and structural modifications at each of four launcher sites and control sites in the Fairchild Defense Area; ENG-45-108-58-191.
LB 7-16. Previous report 7-10

●DISTRIBUTION LINE—
Geiger AFB, Wash.

Bids will be opened 2 p.m., August 6, by U.S. Air Force, procurement office, Geiger AFB, for modification of electrical distribution system from a 4,160-v. four wire system to a 13,200-v. four wire distribution system involving reinsulation of existing 4,160-v. system; removal and replacement of existing transformers with new transformers, construction of a new small substation, replacement of primary and secondary distribution, line extensions, and replacement of poles, at Geiger Air Force Base; IFB 45-614-59-1. LL 7-15

★STEEL AND CONCRETE BRIDGE—
Goldendale, Wash.

Award to Stanley Thompson, Goldendale, $22,639, by City Council, City Hall, Goldendale, for erection of steel trusses and construction of concrete abutment and deck slab for a bridge over Little Klickitat River on Columbus St. in Goldendale. Bids opened June 30. LB 7-11. Previous report 6-28

★ACCESS ROAD—
John Day Lock and Dam, Wash.

Award to Erwen Construction Co., 831 S. Fourth Ave., Pasco, $176,382, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for constructing 2.1 mi. north shore access road, John Day Lock and Dam, near Maryhill, Klickitat County; CIVENG-45-164-58-48.
RM 7-15. Previous report 6-12

▲RELOCATE RAILWAY FACILITIES—
Kanasket, Wash.

Bids received by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for relocation of Northern Pacific Railway Facilities, Kanasket, and Eagle Gorge Stations, approximately eight mi. upstream from Kanasket, Wash.; ENG-45-108-58-47. Work includes relocation of various existing buildings and structures; constructing new brick, wood frame, prefabricated metal buildings and structures; construction of utilities for buildings; grading, constructing asphaltic concrete paving.

Three bids received at July 15 bid opening. Wayne Construction Co., Inc., 3810 Stone Way, Seattle, $112,870; Riley Pleas, Inc., 522 19th N., Seattle, $121,320; Dale M. Madden, 3010 E. 163rd, Seattle, $126,028. Government estimate $81,290.
PD 7-16. Previous report 6-21

HOUSING— Lynnwood, Wash.
(Estimated cost $1,250,000)

Construction will begin immediately on an 80-home housing project to be located between Edmonds and Lynnwood by Stewart and Potter Construction Co., 1911 52nd W., Lynnwood. Site preparation underway and will be completed by September 1.

●BITUMINOUS SURFACE TREATMENT—
Okanogan, Wash.

Bids will be opened 10 a.m., July 21, by Okanogan County Commissioners, Courthouse, Okanogan, for construction of bituminous surfacing treatment on approximately 15 mi. Okanogan county roads, project No. C.R.P. 562 and 589. Plans with county engineer, above address. $5 deposit.
LC 7-12

●STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids to be opened 10 a.m., July 29, by Washington State Highway Commission, Transportation Bldg., Olympia, on fifteen highway construction projects.

SURFACING, BRIDGES, PSH 10 and 16, Okanogan vicinity—Draining, grading, surfacing, bituminous surface treatment, road mix, two reinforced concrete bridges, fencing, illumination, 2.145 mi. PSH 10 and 16, Okanogan County; FAP F-029-2(16) and F-FG-052-3(1).

Quantities: 206,970 c.y. common excavation and borrow; 4,500 tons riprap; 27,930 tons crushed surfacing, ballast, crushed cover stone; 940 c.y. mineral aggregate; 105 ton asphalt cement; 1,869 c.y. concrete; 414,820 lb. steel reinforcing bars; 1,042' standard bridge railing; 14,000' untreated timber piling; 2,218' concrete pipe; 314' metal pipe; 3,127' beam guard rail; 14,970' wire fence.

PAVING, JCT. PSH 1 to JCT. SSH 2-J—Draining, grading, surfacing, cement treated base and bituminous surface treatment, asphaltic concrete paving, 2.436 mi. PSH 1, Snohomish County; FAP F-001-4(19) and DF-001-4(18).

Quantities: 31,170 c.y. common excavation; 540 c.y. topsoil; 17,970 tons selected roadway borrow; 6,000 tons crushed surfacing; 790 c.y. crushed cover stone, prime coat aggregate; 141 tons asphalt cement; 13,495 tons asphaltic concrete; 2,710 bbl. portland cement; 11,080 tons cement treated base; 9,170' extruded traffic curb; 523' concrete pipe.

BRIDGE, Longview Wye Undercrossing—Precast, prestressed concrete girder bridge, PSH 1, Cowlitz County; FAP I-5-1(19)37.

Quantities: 280 c.y. common excavation; 400 c.y. crushed surfacing, ballast, prime coat aggregate; 110 ton asphaltic concrete; 90' metal pipe; 432' standard bridge railing; 2,331' prestressed concrete girders; 905 c.y. concrete; 192,000 lb. steel reinforcing bars; 14,800' treated timber piling.

INSTALL SIGNS, Murphys Corner to Moses Lake—Installing signing on 20.058 mi., PSH 18, Grant County; FAP I-90-4(19)148.

PAVING, S.E. 216th St.-Maple Valley to 276th Ave. S.E.—Draining, grading, surfacing, asphaltic concrete paving, 3.026 mi., King County; FAS DS-0906(1).

Quantities: 56,850 c.y. common excavation; 1,200 c.y. unsuitable foundation excavation; 200 tons riprap; 26,190 tons selected roadway borrow; 11,860 tons crushed surfacing; 450 c.y. prime coat aggregate; 49 ton asphalt cement; 5,720 tons asphaltic concrete; 100 c.y. concrete; 597' concrete pipe; 1,272' metal pipe; 550' beam guard rail.

SURFACING, Inchelium to Twin Lakes—Surfacing, bituminous surface treatment, 8.099 mi., Ferry County; FAS S-1230(1) and DS-1230(2).

Quantities: 27,300 c.y. selected roadway borrow; 13,080 c.y. crushed surfacing, crushed cover stone; 325 tons asphalt cement.

SURFACING, La Push Road—Clearing, draining, grading, surfacing with selected roadway borrow, 0.785 mi., Clallam County; FAS S-1240(2) and DS-1240(1).

Quantities: 7 acres clearing; 32,000 c.y. unclassified excavation; 5,900 c.y. selected roadway borrow; 405' concrete pipe.

SURFACING, Kettle River, Toroda Creek, Kettle Falls-Inchelium Roads—Surfacing, bituminous surface treatment, 7.638 mi., Ferry County; FAS S-0983(4), S-1143(2) and S-0963(4).

Quantities: 8,080 c.y. crushed surfacing crushed cover stone; 258 tons asphalt cement.

PAVING, Old Military Road—Surfacing, asphaltic concrete paving, 3.259 mi., Pierce County; FAS DS-1310(1) and County Project.

Quantities: 785 c.y. crushed surfacing, 4,830 tons asphaltic concrete.

SURFACING, Twisp River Road—Surfacing, bituminous surface treatment, 5.236 mi., Okanogan County; FAS DS-1149(2).

Quantities: 2,620 c.y. crushed surfacing; 7,590 tons crushed cover stone; 151 tons asphalt.

BRIDGE, Red Rock Bridge—Reinforced concrete slab bridge, 0.02 mi., Grant County; FAS DS-1404(1).

Quantities: 165 c.y. concrete; 28,400 lb. steel reinforcing bars; 209' concrete bridge railing; 1,020' concrete piling.

PAVING, Main St.-Town of White Salmon—Grading, surfacing, asphaltic concrete paving, 0.135 mi., Klickitat County; FAS DS-0399(1).

Quantities: 2,100 c.y. unclassified excavation; 1,350 c.y. crushed surfacing, ballast; 610 tons asphaltic concrete.

PAVING, Enumclaw City Streets—Draining, grading, asphaltic concrete paving, 1.035 mi., PSH 5, King County; State Project.

Quantities: 4,230 c.y. common excavation; 2,820 c.y. selected roadway borrow; 890 c.y. crushed surfacing, prime coat aggregate; 16 tons asphalt cement; 4,430 tons asphaltic concrete; 283 sq. yd. asphaltic concrete driveway; 5,965' cement concrete curb and gutter; 72 sq. yd. cement concrete sidewalk; 339' concrete pipe.

BITUMINOUS SURFACE TREATMENT, Farmer to Mansfield—Bituminous surface treatment, 22.05 mi., SSH 10-B, Douglas County; State Project.

Quantities: 285 tons asphalt cement; 2,670 c.y. mineral aggregate.

PAVING, FENCING, Washington State Ferry System-Winslow Ferry Terminal—Asphaltic concrete paving, curb and bumper median, fencing, installing illumination for Washington State Toll Bridge Authority, Kitsap County; State Project.

Quantities: 122 tons asphaltic concrete; 1,150 sq. yd. concrete curb and bumper median; 435' chain link fence; 7 lighting standards; 11 luminaires and ballasts; 1,010' burial cable. RM 7-11

■STATE HIGHWAY PROJECTS—
Olympia, Wash.

Planholders announced by Washington State Highway Commission, Transportation Bldg., Olympia, for 13 highway construction projects on which bids will be opened 10 a.m., July 22.

PAVING, North Fort Lewis to Ponders—Clearing, draining, grading, cement treated base and cement concrete paving, bituminous surfacing, asphaltic concrete paving, three reinforced concrete bridges and fencing on 3.728 mi. PSH 1, Pierce County; FAP I-IG-5-3(29)121 Unit 1.

Planholders: American Bitumuls & Asphalt Co., Box 4062, Portland; Asphalt Paving and Engineering Co., Box 356, Tacoma; J. N. Conley, 4332 N.E. Royal Court, Portland; The Harrison Brothers Co., 225 Wakefield Drive, Tacoma; Milone & Tucci, Inc., 2815 S. Lawrence St., Tacoma; John E. Alexander, Inc., Box 3583, Seattle; Lawrence St., Tacoma; John E. Alexander, Inc., Box 3583, Seattle; Bergersen & Roberts, 2015 Center St., Tacoma; M. P. Butler, 3419 13th Ave. S.W., Seattle; F. B. McCarthy, 807 N. 11th St., Tacoma; Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle; Peter Kiewit Sons Co., Box 1777, Vancouver; Thos. Scalzo Co., 3211 Airport Way, Seattle; Woodworth & Company, Inc., 1200 E. D St., Tacoma; Paine & Gallucci, Inc., 1521 S. Grant St., Tacoma; Northwest Construction Co., 3050 6th Ave. N.W., Seattle; Cascade-Olympic Construction Co., Rt. 2, Box 131, Shelton; J. D. Shotwell Co., 3113 S. Pine, Tacoma; Hannan Bros. Co., 8410 S.E. Otty Road, Portland; Charles R. Watts Co., 4121 6th N.W., Seattle; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma; L. B. Foster Co., Box 548, Carnegie, Pa., Algoma Construction Ltd. & Trans-west Construction Inc., Box 358, Moses Lake; Sjoboen Bros., 3205 Hoadley Road, Olympia; Erickson Paving Co., 14446 Sunset Highway, Bellevue; Acme Construction Co., Box 651, Redmond; Geo. V. Nolte Co., Box 1446, Moses Lake.

BRIDGE, S. 38th St. Undercrossing in Tacoma — Reinforced concrete slab bridge, PSH 1, Pierce County; FAP I-5-3(27)132.

Planholders: John E. Alexander, Inc., Box 3583, Seattle; Algoma Construction Ltd. & Trans-West Construction Co., Box 358, Moses Lake; Concrete Construction Co., 2015 Center St., Tacoma; Sawyer Construction Co., Rt. 3, Box 298, Tacoma; Hannan Bros. Co., 8410 S.E. Otty Road, Portland; Richard L. Martin Co., Box 482, Oswego; Anderson Bridge Construction Co., 4130 S. Adams St., Tacoma; Roy T. Earley Co., 321 Middle Waterway, Tacoma; L. B. Foster Co., Box 548, Carnegie, Pa.; Woodworth & Company, Inc., 1200 East D St., Tacoma; Cascade-Olympic Construction Co., Rt. 2, Box 131, Shelton.

SURFACING, First Crossing San Poil River to 21 Mile Creek—Draining, grading, bituminous surfacing on 8.367 mi. PSH No. 4, Ferry County; FAP F-035-1(2).

Planholders: J. N. Conley, 4332 N.E. Royal Court, Portland; U.S. Steel Corporation, American Bridge Division, 309 S.W. 6th Ave., Portland; F. R. Hewett Co., E. 5916 Baldwin, Spokane; Murphy Bros., Inc., E.

3728 Broadway, Spokane; J. Arlie Bryant, Inc., & Clarence Braden, 3716 Skyview Drive, Spokane; Standard Asphalt Paving Co., Inc., N. 119 Post St., Spokane; Clifton & Applegate, Box 8, Yardley; James Crick & Sons, Box 102, Yardley.

DRAINAGE, Davis Terrace Vicinity—Install drainage on PSH 1, Cowlitz County; FAP I-5-1(17)39.

Planholders: Peter Kiewit Sons Co., Box 1777, Vancouver; C. W. Thomas & Son, Box 402, Winlock; Archie Radakovich, 2361 E. Lynnwood Drive, Longview; Walter Katryniuk, 1391 4th St., Chehalis; M. D. Lowe, 1608 Bircham St., Kelso.

ILLUMINATION, PSH No. 5 and SSH No. 1-P Interchanges—Install illumation on PSH 1, Lewis County; FAP I-5-2(36) 59 Unit 2.

Planholders: Pacific Car & Foundry Co., 4th and Foundry, Renton; Olson Electric Co., Box 830, Vancouver; Rochat Electric, 4636 N. Williams Ave., Portland; Line Materials Industries, Box 2077, Milwaukee, Wis.; James Electric Co., 1504 Market St., Chehalis.

BRIDGE, Mill Creek Bridge—Reinforced concrete slab bridge on 0.018 mi. Walla Walla county road; FAS No. DS-0454(4).

Planholders: Algoma Construction Ltd. & Trans-West Construction Co., Box 358, Moses Lake; O. D. Keen Construction Service, 515 Bellevue N., Walla Walla; A. Ritchie & Co., 2102 Melrose, Walla Walla; Marshall Construction Co., Box 1032, Hermiston, Ore.; James H. Ryan, 731 Pearson, Walla Walla; L. B. Foster Co., Box 548, Carnegie, Pa.; Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane; Lewis Hopkins Co., 221 S. 3rd St., Pasco.

PAVING, Othello East Road—Draining, grading, asphaltic concrete paving on 0.988 mi. Adams County Road; FAS No. DS-0581(1).

Planholders: John M. Keltch, Box 504, Pasco; Murphy Bros., Inc., E. 3728 Broadway, Spokane; McAtee & Heathe, Inc., Box 4187, Sta. B, Spokane; Basin Paving Co., Box 1574, Moses Lake.

SURFACING, Conconully Road—Draining, grading, bituminous surfacing 0.862 mi. Okanogan County road; FAS No. DS-0466(2).

Planholders: Graves & Burke & Anson & Company, Box 119, Wenatchee; Murphy Bros., Inc., E. 3728 Broadway, Spokane; Standard Asphalt Paving Co., Inc., N. 119 Post St., Spokane; James Crick & Sons, Box 102, Yardley.

PLANTMIX PAVING, N. Union St. and W. Clearwater Ave.—Draining, grading, bituminous plantmix paving on 0.636 mi. Benton County roads; FAS No. DS-0452(5).

Planholders: McAtee & Heathe, Inc., Box 4187, Sta. B, Spokane; Acme Pavers, Inc., Box 603, Kennewick.

SURFACING, Kaiser and McDuff Roads—Bituminous surfacing on 5.544 mi. Thurston County roads; FAS DS-1070(2) and DS-1060(3).

Planholders: American Bitumuls & Asphalt Co., Box 4062, Portland; Olympia Oil & Wood Products Co., Inc., Box 627, Olympia; S & S Surfacing Co., 8328 15th Ave. N.W., Seattle; Doolittle Construction Co., 510 Adams St., Seattle.

TRAFFIC SIGNALS, Gravelly Lake Drive—Install traffic signal system on 0.843 mi. Pierce County road; FAS DS-0547(3).

Planholders: Olson Electric Co., Box 830, Vancouver; Econo-lite, Corporation, 314 Lloyd Bldg., Seattle.

SURFACING, PAVING, Puyallup East and Meade St. to Bonney Ave. in Sumner—Draining, grading, bituminous surfacing, asphaltic concrete paving on 1.766 mi. SH Nos. 5, 5-E, Pierce County; a State Project.

Planholders: American Bitumuls & Asphalt Co., Box 4062, Portland; Concrete Construction Co., 2015 Center St., Tacoma; Woodworth & Company, Inc., 1200 East D St., Tacoma; J. D. Shotwell Co., 3113 S. Pine St., Tacoma; Charles R. Watts Co., 4121 6th Ave. N.W., Seattle; J. E. Work, Inc., 14217 Lake Hills Blvd., Bellevue; Geo. V. Nolte Co., Box 1446, Moses Lake.

PAVING, Point Southworth to Harper—Grading, asphaltic concrete paving on 1.423 mi. PSH 14, Kitsap County; a State Project.

Planholders: American Bitumuls & Asphalt Co., Box 4062, Portland; North Kitsap Gravel & Asphalt Co., Inc., Rt. 2, Box 305, Poulsbo. RM 7-15. Previous report 7-3

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received July 15 by Washington State Highway Commission on nine highway construction projects.

PAVING, JCT SSH 3-A to Kiona—Draining, grading asphaltic concrete paving, bituminous surfacing 11.448 mi. State Highways 3 and 3-A, Benton County; FAP F-018-3(6) and State Project.

LOW BIDS: James Crick & Sons, Box 102, Yardley, $449,874; R. H. Sussex, 2850 State Highway 2A, Bellevue, $455,765; Babler Bros., 4617 S.E. Milwaukie Ave., Portland, $461,592. Ten bids.

PAVING, Penrith to Newport—Draining, grading asphaltic concrete paving, bituminous surfacing 3.782 mi. PSH 6, Pend Oreille County; FAP F-043-1(4).

ONLY BIDS: Carbon Bros., N. 3430 Cook St., Spokane, $271,375; D. A. Sullivan, Box 37, Parkwater Station, Spokane, $297,555; F. R. Hewett, E. 5916 Baldwin Ave., Spokane, $303,824.

ROAD MIX, ASPHALTIC CONCRETE PAVING, Sedro Woolley to Minkler Lake—Bituminous roadmix and asphaltic concrete paving 7.92 mi. SSH 17-A and 1-Y, Skagit, Island and Snohomish counties; FAP DF-052-1(1), DS-0356(4).

ONLY BIDS: Doolittle Construction Co., 510 Adams, Seattle, $49,002; Associated Sand & Gravel, Box 914, Everett, $49,204; Wilder Construction Co., Inc., 1840 State, Bellingham, $50,642.

INSTALL SIGNS, Hyak to Top of Easton Hill—Install signing on 11.3 mi. PSH 2, Kittitas County; FAP I-90-2(19)51.

LOW BIDS: Vancouver Sign Co., 6615 Pacific Highway, Vancouver, $22,204; Traffic Safety and Supply Co., 2636 N.E. Sandy Blvd., Portland, $24,863; Mowat Bros. Construction Co., 3833 Eastlake Ave., Seattle, $25,962. Four bids.

SURFACING, Langford-Sagehill and Sagemore Roads—Bituminous surfacing 22.11 mi. Franklin County roads; FAS DS-1037(1), DS-101(4), S-1036(2).

LOW BIDS: Standard Asphalt Paving Co., Inc., 119 Post St., Spokane, $51,177; N. G. Johanson, 1828 E. Trent Ave., Spokane, $52,329; S & S Surfacing, 8328 15th Ave. N.W., Seattle, $53,132. Six bids.

SURFACING, Mission Creek Road—Draining, grading, surfacing 0.581 mi. Chelan County road; FAS DS-0437(1).

LOW BIDS: John Konkle Trucking Co., Sumner, $13,408; John P. Knowles, 1040 Monroe, Wenatchee, $22,677; C. E. Oneal, Inc., Box 270, Ellensburg, $24,206. Six bids.

TIMBER TRESTLE, APPROACHES, Green Creek—Treated timber trestle and approaches 0.165 mi. SSH No. 9-A, Clallam County, a State Project.

LOW BIDS: Owens Bros., Box 551, Port Angeles, $28,007; Wilson & Simpson, Box 1070, Port Angeles, $29,160; E. W. Bignold, Elma, $30,870. Five bids.

PAVING, JCT SSH 1-A to Granite Falls—Asphaltic concrete paving 2.108 mi. SSH 15-A, Snohomish County, a State Project.

ONLY BIDS: Associated Sand & Gravel, Box 914, Everett, $30,685; Wilder Construction Co., 1840 State St., Bellingham, $33,152.

BRIDGES, Coweman River—Cleaning, painting five bridges on State Highway 1, 1-N, 1-S, 5-L, 12-E, Cowlitz and Lewis counties.

LOW BIDS: H. P. Fisher, 10701 E. Marginal Way, Seattle, $16,729; Andrew Nesheim, 9711 191st S.W., Edmonds, $18,535; Sandblasting & Steam Cleaning, Portland, $18,818. Nine bids.

DE 7-16. Previous report 7-8

★PAVING, CURBS, GUTTERS— Pasco, Wash.

Award to Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane, $40,200, by City Council, City Hall, Pasco, for 21,400' concrete gutter and curb and gutter, 5,350 ton asphaltic concrete pavement 2" thick, 5,300 ton base rock, 28 catch basins, drainage. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 628 Idaho Bldg., Boise. ONLY OTHER BID: L. W. Vail, Box 347, Pasco, $42,000. Bids opened July 1. LB 7-11. Previous report 6-18

★MOORING FLOATS— Port Townsend, Wash.

Award to Cotton Engineering and Shipbuilding Corp., 126 Madison, Port Townsend, $15,881, by 13th Naval District, Bldg. 2, U.S. Naval Station, Seattle, for provide mooring floats built with cedar logs a treated timbers, treated guide piles, cle and hardware, Harbor Defense Unit, P Townsend; Spec. No. 12365/58.

LB 7-2. Previous report g

▲SEWAGE SYSTEM— Prosser, Wa

Nine bids on Schedule 1 and six b on Schedule 2 were received by City Cle City Hall, Prosser, for construction of dustrial sewer lines and irrigation fa (sched. 1), and lift station and sew treatment plant addition and revis (sched. 2). Plans by Gray & Osborne, co sulting engineers, 228 S. 2nd St., Yakim Bids opened July 10. LOW BIDS—SCHED. De Blasio Bros., Route 4, Yakima, $46,8 E. M. Gostovich, Sunnyside, $47,603; Ch Bros., and Sandkay Contractors Inc., Bo 938, Ephrata, $56,347. SCHED. 2: Jens Rasmussen, Sunnyside, $113,536; Joe Venne, 507 12th St., Sunnyside, $113,9 Hans Skov, Liberty Bldg., Yakima, $13 158.

IG 7-12. Previous report 7-

★BRIDGE REPAIR— Prosser, Wash.

Award to E. M. Gostovich, Box 284, Sunnyside, $13,619, by Benton County Commissioners, Courthouse, Prosser, for repairs t North Crossing Bridge at Twin Bridge located in the west Richland area. Bid opened July 14. OTHER BIDS: Cherf Bros & Sandkay Contractors, Inc., Box 93 Ephrata, $14,695; Pearson & Spurgeon, Ke newick, $16,071.

LC 7-16. Previous report 7-

★SEAL COATING— Pullman, Wash.

Award to Doolittle Construction Co., 51 Adams, Seattle, $14,989, by Board of Regents 303 Administration Bldg., Washington Stat College, Pullman, for seal-coating 60,2 sq. yd. of campus streets and roads at WSC Bids opened June 30.

MH 7-12. Previous report 7-

● SEWAGE TREATMENT PLANT— Pullman, Wash.

Bids will be opened 4:30 p.m., July 28, b City Council, City Hall, Pullman, for repair to the city's sewage treatment plant. Plan with city clerk, M. E. Mays, above address Repairs are primarily replacement and re pairs of glazed tile upon the digesters; re placement of concrete coping; tuckpointing existing mortar joints; placing of "Ply-On plastic coating on existing concrete.

MH 7-1

★CLEARING, GRUBBING—Quinault, Wash.

Award to J. T. Spradlin, 645 Chenault Ave., Hoquiam, $12,087, by Quinault School District No. 97, office of superintendent Quinault Lake school, Amanda Park, Grays Harbor County, for clearing and grubbing two acres for the district. Bids opened July 7. OTHER BIDS: C. W. Bignold, Box 128 Elma, $12,118; George L. Campbell, Forks, $13,500.

LB 7-11. Previous report 6-25

★CHLORINATION STATIONS, WATER LINES— Richland, Wash.

Award to Hughes Construction Co., Kennewick, $7,958, by Atomic Energy Commission, Box 550, Richland, for water and sewer improvements, including constructing two chlorination stations sanitary sewer line and service line, at Richland.

LB 7-2. Previous report 6-18

▲PAVING— Seattle, Wash.

Two bids received by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for asphaltic concrete paving at Camp Long, Carkeek Park and Georgetown Playgrounds; Contract 619. Bids opened July 1. Northwest Asphalt Co., 7343 E. Marginal Way, Seattle, $8,597; Washington Asphalt Co., 309 W. 39th, Seattle, $8,856.

PD 7-2. Previous report 6-25

★COPPER CABLE— Seattle, Wash.

Award to Line Material Industries, 1230 W. Nickerson, $6,697, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 18,528 lb. copper cable.

PD 7-8. Previous report 7-3

★**DETECTOR METERS—** **Seattle, Wash.**

Award to Hersey Detector Manufacturing Co., 1231 N.W. Hoyt, Portland, Ore., $1,941 (each), by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing two 8" model F.M. Hersey detector cold water meters.

PD 7-8. Previous report 6-24

★**REINFORCING BAR STEEL—** **Seattle, Wash.**

Award to Northwest Steel Rolling Mills, Inc., 4315 9th N.W., Seattle, $1,850, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 20,000 lb. No. 5 reinforcing bar steel.

PD 7-10. Previous report 7-1

★**STREET WIDENING—** **Seattle, Wash.**

Award to Toney Romano, 1823 Dearborn St., Seattle, $11,887, by Board of Public Works, 512 County City Bldg., Seattle, for widening Airport Way in vicinity of King County Airport; Ord. No. 87143.

PD 7-10. Previous report 7-3

●■**PUMP STATIONS, LIFT STATION—** **Seattle, Wash.**

(Engineers' estimate $376,225)

Bid opening extended from July 16 to 2 p.m., July 23, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing two pumping stations—one at W. Barton St., the other at Murray Ave.; furnishing and installing a lift station at Lincoln Park; constructing additions to 53rd Ave. S.W. pumping station; Ord. No. 86138. Deposit is $25 rather than $10 as stated PCD 7-1.

Additional planholders: General Construction Co., 3840 Iowa; Whitehorse Engineering Co., 14213 51st S.; Harold Kaeser Co., 3629 34th S.; Scheumann & Johnson, Lloyd Bldg.; Alton V. Phillips Co., 4055 21st W.; Argentieri & Colarossi, 1815 Jackson. Of Seattle.

PD 7-11. Previous report 7-8

APPROACH LIGHTING SYSTEM— **Seattle, Wash.**

Bids will be called soon by Civil Aeronautics Administration, procurement branch, 5651 W. Manchester Ave., Los Angeles, Calif., for installation of a new approach lighting system, Configuration "A," and a sequenced flasher lighting system on the ALS structures off the south end of the North-South runway at the Seattle-Tacoma Municipal Airport, Highway 99, Seattle; Proposal No. 4-59-910.

YB 7-12

●**WATER MAIN—** **Seattle, Wash.**

Bids will be opened 8 p.m., August 4, by King County Water District No. 79, George L. Millman, secretary, 18120 68th Ave. N.E., Kenmore, for furnishing and installing 13,400' of 4" and 6" dipped and wrapped steel water main, 34 gate valves, and 27 fire hydrant assemblies. Plans and specifications with Hill & Ingman, 3104 Western Ave., Seattle. $2.50 charge, special specifications. $3.50 charge, standard specifications.

PD 7-12

●**WATER MAIN—** **Seattle, Wash.**

Bids will be opened 2 p.m., July 23, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing cast iron water mains on 8th Ave. N.W., et al; LID 6185.

Plans and specifications available on and after July 14 in room 404, County City Bldg., Seattle. $10 deposit.

Quantities: 285' of 4", 1,200' of 6", 10,500' of 8" cast iron water main; 41 hydrants with 6" connections; 20 gate valves, 6" and 8"; miscellaneous appurtenances.

PD 7-12

●**RECONDITIONING BRIDGE SURFACES—** **Seattle, Wash.**

Bids will be opened 9:30 a.m., August 4, by King County Commissioners, 402 County City Bldg., Seattle, for cleaning, scraping, sandblasting and painting four steel bridges located in Road District No. 2 (South King County). Plans with road engineer's office, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check, bid bond, 5%.

Approximate steel tonnage of bridges as follows: Whitney Bridge No. 3025, Sec. 28, Twp. 21 N.R., 6 E.W. M., 54 ton; McDonald Bridge No. 3164, Sec. 32, Twp. 23 N.R. 6 E. W. M. 31 ton; Circle Water Bridge No. 3017, Sec. 25, Twp. 21 N.R., 5 E.W. M., 30 ton; Steel Truss in storage at Maple Valley Shops, 43 ton.

PD 7-12

●**TOPSOIL, SEED PLANTING—** **Seattle, Wash.**

Bids will be opened 2 p.m., July 23, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for topsoiling, seeding and planting West Seattle Interceptor sewer system Alki Sewage Treatment Plant site; Ord. No. 85593/86893.

Plans and specifications available on and after July 14 in room 404 County City Bldg., Seattle. $10 deposit.

PD 7-12

▲**LATERAL SEWER (Contract No. 3)—** **Seattle, Wash.**

Bids received by Lake City Sewer District, 12721 30th N.E., Seattle, for construction of 43,375' of 6" to 24" pipe sewer, including 154 standard manholes and 8 drop manholes (Contract No. 3), in ULID No. 3, to become an integral part of the sanitary sewer system of the district. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.

Five bids received July 11. BIDS: E. D. Hanson Construction Co., 922 N. 127th, $447,374; Lundberg Construction Co., 3420 13th S.W., $457,615; Valley Construction Co., and Morrison-Knudsen Inc., (joint venture) 7722 Rainier Ave., $487,967; Matt Malaspina, 1901 23rd Ave. S., $538,067; Frank Coluccio Construction Co., Inc., 7778 Seward Park Ave., $714,555. Of Seattle.

LB 7-12. Previous report 7-1

BOILER PLANT— **Seattle, Wash.**

(Estimated cost $1,000,000)

Bids may be called the end of July for opening the latter part of August by University of Washington Board of Regents, Seattle, for construction of a boiler plant, including the piping and electrical work on the campus. Working drawings are near completion by Bouillon, Griffith & Christofferson, consulting engineers, 1411 Fourth Avenue Bldg., Seattle.

PD 7-12

★**PARKING LOT—** **Seattle, Wash.**

Award to Washington Asphalt Co., 309 W. 39th, Seattle, $9,000, by Board of Regents, University of Washington, Seattle, for construction of an 80-car capacity, asphaltic concrete parking lot on University Arboretum property for the Seattle Historical Museum. Plans by Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle.

PD 7-16. Previous report 7-1

▲**LATERAL SEWER (Contract No. 4)—** **Seattle, Wash.**

Bids received by Lake City Sewer District, 12721 30th N.E., Seattle, for construction of 34,270' of 6" to 15" pipe sewer (Contract No. 4), in ULID No. 3, to become an integral part of the sanitary-sewer system of the district. Bids opened July 14. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.

Six bids received at July 14 bid opening. LOW BID: Valley Construction Co., 7722 Rainier Ave., and Morrison-Knudsen, Hoge Bldg., joint venture, $255,512. OTHER BIDS: Matt Malaspina & Co., 1901 23rd S., $273,184; Murphy Brothers, Inc., 18537 29th N.E., $289,253; Lundberg Construction Co., 3420 13th S.W., $290,573; George Goerig, 500 Wall St., $300,625; Frank Coluccio Construction Co., Inc., 7778 Seward Park Ave., $333,979. Of Seattle.

PD 7-16. Previous report 7-1

▲**MECHANICAL STREET SWEEPER—** **Seattle, Wash.**

Bids referred to engineer for award by King County Commissioners, 402 County City Bldg., Seattle, for furnishing one latest model pneumatic tired, gasoline powered mechanical street sweeper with dual controls and dual gutter brooms.

LB 7-16. Previous report 7-5

▲**CONCRETE BLOCKS, CURB STOPS—** **Seattle, Wash.**

Two bids received for furnishing 5,000 concrete blocks, and four bids for furnishing 3,000' of ¾" and 500' of 1" curb stops at July 15 bid opening, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle. CONCRETE BLOCKS—LOW BID: Graystone, Inc., 134 Nickerson, Seattle, $1,115. CURB STOPS—LOW BID: Hallgren Co., 1252 1st S., Seattle, $6,875.

PD 7-16. Previous report 7-5

●**EARTH MOVING, GRADING—** **Seattle, Wash.**

Bids will be opened 10 a.m., July 22, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for moving 15,000 c.y. earth from present location in Green Lake area to Green Lake Playfield, and grading at the new location.

PD 7-16

●**COPPER TUBING FITTINGS—** **Seattle, Wash.**

Bids will be opened 10 a.m., July 22, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing agent, 511 County City Bldg., Seattle, for furnishing 6,000 water service copper tubing fittings.

PD 7-16

SEWAGE TREATMENT FACILITIES— **Seattle Defense Area, Wash.**

Bids will be opened about August 7 by Corps of Engineers, Seattle District, 1519 S. Alaskan Way, Seattle, for construction of approximately 700' of 8" sewer main, approximately six 6" service laterals from existing septic tanks to the sewer main, a sewage treatment plant for the sewage from 12 residences, approximately 100' of chain link fencing, and a gravel surfaced access driveway, Seattle Defense Area Family Housing, Cougar Mountain; ENG-45-108-59-2. Plans with above office. 20% bid bond.

LB 7-12

▲**REINFORCED CONCRETE BRIDGE—** **Skamania County, Wash.**

Five bids received by U.S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St. (Box 4137), Portland, for construction of Rush Creek bridge on Wind River-Meadow Creek Road No. 73, Gifford Pinchot National Forest, Skamania County, Wash.; No. R6-59-2. TWO LOW: Teller Construction Co., 845 N. Graham, Portland, $16,851; Roger E. Holmes, Rt. 10, Box 493, Olympia, Wash., $17,022.

CG 7-16. Previous report 6-26

SEWER IMPROVEMENTS— **Snohomish, Wash.**

Bids will be called in early fall by City Council, City Hall, Snohomish, for construction of additional sewer collection systems, interceptor trunk lines, pumping stations and a lagoon-type sewage treatment plant. Working drawings are near completion by Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.

PD 7-11. Previous report 4-11

●**SUBSTATION—Snohomish County, Wash.**

Bids will be opened 2 p.m., P.S.T., July 24, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of cathodic protection, Snohomish Substation, approximately ½ mi. north of Snohomish, and just west of State Highway No. 15, Snohomish County, Wash.; Inv. No. 8835. Plans with above office.

LB 7-12

★**REINFORCING STEEL—** **South Bend, Wash.**

Award to Mercer Steel Co., 2636 N.W. 26th, Portland, Ore., $10.32 per 100 lbs. by Pacific County Commissioners, Courthouse, South Bend, for furnishing 5,700 lb. reinforcing steel.

DM 7-2. Previous report 6-19

▲**AIRPORT LIGHTING—** **Spokane, Wash.**

Three bids received by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., for installing condenser discharge sequenced flashing lights on approach lighting, Washington Municipal Airport, Spokane, Prop. No. 4-58-1027. Bids opened July 8. BIDS: D. G. Quinton Co., N. 1413 Division, Spokane, $6,394; Power City Electric Co., Inc., N. 920 Howard, Spo-

kane, $6,784; Kehne-Crabtree Electric Co., Inc., E. 3801 Riverside, Spokane, $8,113.
LB 7-12. Previous report 7-1

★DREDGING, CLEARING— Sumas, Wash.

Amount of award to Henry Bros. Shovel Co., Bow, Wash., altered to $34,231, from $26,842, by Tom A. Durham, prosecutor, City Hall, Bellingham, for dredging and clearing 35,000 c.y. during 1958 and 32,000 c.y. during 1959, Saar Creek from Canadian border to Rock Road Bridge and from Rock Road bridge to Olason's mink farm bridge, five mi. east of Sumas. Change in figure because of clerical error. Despite the correction, the amount was less than the only other bid submitted.
ET 7-16. Previous report 6-26

BANK MAINTENANCE, PROTECTIVE WORKS— Tacoma, Wash.

Bids will be called about July 30 by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for placement of 400 tons of rock in approximately 12 locations along the left and right banks of Puyallup River, Tacoma; CIVENG-45-108-59-3. LB 7-12

●BITUMINOUS PAVING— Toppenish, Wash.

Bids will be opened 8 p.m., July 22, by City Council, Aleta Bennet, city clerk, City Hall, Yakima, for installation of bituminous pavement overlay for various streets in Toppenish. Plans with Gray & Osborne, 228 S. 2nd St., Yakima. $10 deposit.

Quantities: 2,800 sq. yd. preparation of ballast; 180 tons crushed stone top course; 45 tons hot mix asphalt, ¼": 700 tons asphaltic concrete pavement, type I-I; 2 each adjust monument cases; 9 manholes.
IG 7-16

▲STREET IMPROVEMENT— Vancouver, Wash.

Three bids received by R. E. Moisant, purchasing agent, City Hall, Vancouver, for improvement of 33rd St. from "S" to Grand. Plans with city engineer. Bids opened July 9. TWO LOW: Columbia River Paving, Box 57, Vancouver, $12,320; United Contracting Co., 9898 N.E. Hancock Drive, Portland, $13,157. HI BID: Portland Road and Driveway Co., 7295 S.E. King Road, Portland, $15,019. CG 7-11. Previous report 7-3

▲ROADS, DRAINAGE FACILITIES— Vancouver, Wash.

One bid received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction additions to roads and drainage facilities, J. D. Ross Substation, three mi. north of Vancouver, Clark County, Wash.; Inv. No. 8801. ONLY BID: Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland, $20,653.
CG 7-12. Previous report 6-26

●SEWER INSTALLATION— Vancouver, Wash.

Bids will be opened 10 a.m., August 6, by Vancouver Housing Authority, Fred Senechal, executive director, 809 MacArthur Bldg., Vancouver, for construction of approximately 314' of 18" sewer mains and four wyes in Northwood area of McLoughlin Heights. CG 7-16

POWERHOUSE COMPLETION— Walla Walla, Wash.

Bids will be called about July 25 for opening about September 18, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for completing powerhouse with three generator bays, powerhouse service, and erection bay; installing intake gates to temporary location, operating gates during diversion, relocating gates after diversion; installing compressed air system, heating, ventilating, air conditioning, lighting, electrical, communication system, remote control devices, CO_2 and water fire protection systems, power house elevator, piping, including pumps, strainers, storage tanks; installing three 143,000 h.p. Kaplan type turbines with governors and appurtenances, fishwater pumps, 500-ton bridge crane, electric cable, transformers, substation, switchgear and appurtenances, and machine shop equipment, Ice Harbor Lock and Dam, Walla Walla and Franklin Counties, Wash.; CIVENG-45-164-59-3. LB 7-12

●SIGNAL SYSTEM— Wenatchee, Wash.

Bids will be opened 10 a.m., July 31, by I. B. Munson, district engineer of Washington State Highway Commission, Box 98, Wenatchee office, for installing a traffic actuated signal system at Wenatchee Ave. and Miller St., in Wenatchee; PSH No. 2, Chelan County. A state project. Bid bond 5%. Plans with above office. $2 deposit.
LB 7-16

★CONCRETE SCREENING STRUCTURE— Willard, Wash.

Award to Zuber Bros. Contractors, 3600 S.E. 28th Ave., Portland, $9,918, for constructing concrete structure for screening water at U.S. Fish-Cultural Station at Willard about six mi. north of Cook on the old Evergreen Highway, by Fish and Wildlife Service, 1001 N.E. Lloyd Blvd., Portland (Box 3737). Five bids were received July 8. 2ND LOW: Riverside Construction Co., 12441 S.E. Market St., Portland, $11,500. HI: James G. Robertson, Rt. 1, Box 385-A, Clackamas, Ore., $13,789.
CG 7-11. Previous report 6-19

▲STORM SEWER— Yakima, Wash.

Bids received by City Clerk, J. A. Smith, City Hall, Yakima, for construction of Nob Hill Storm sewer (Sched. 1), underdrain at Treatment plant (Sched. 2), sanitary sewer at 18th and Nob Hill Blvd. (Sched. 3), sanitary sewer at County Detention Home (Sched. 4), and sanitary sewer, Leingang's addition (Sched. 5). Bids opened July 9. LOW BIDS—SCHED. 1: N. L. Kimball, 1019 Pleasant, Yakima, $60,012; E. M. Gostovich, Box 264, Sunnyside, $69,219. Two bids. SCHED. 2: N. L. Kimball, Yakima, $6,241. One bid. SCHED. 3: N. L. Kimball, Yakima, $3,937. One bid. SCHED. 4: N. L. Kimball, Yakima, $3,876. One bid. SCHED. 5: N. L. Kimball, Yakima, $1,712. One bid.
IG 7-12. Previous report 7-8

APPROACH LIGHTING SYSTEM— Yakima, Wash.

An extension of time has been asked by the city of Yakima for installation of a high intensity approach lighting system on the east end of the 5,500' runway at Yakima Municipal Airport, according to Kenneth Schutt, finance commissioner. Money is not available for buying right of ways at the present time. The time for application for Federal Aid funds expired June 30.
IG 7-12. Previous report 12-7

★BITUMINOUS CEMENT SURFACING— Yakima, Wash.

Award to S & S Surfacing Co., 8328 15th Ave. N.W., Seattle, $136,177, by Yakima County Commissioners, Courthouse, Yakima, for surfacing with bituminous cement, 16.66 mi., and seal coating, 33.53 mi., of existing oiled road, CRP No. 764; surfacing with bituminous cement, 10.36 mi., and seal coating, 15.17 mi., existing oiled roads, LCRP No. 765; seal coating, 18.91 mi., existing oiled roads, CRPSM No. 274, and seal coating, 3.03 mi., existing oiled roads, LCRPSM No. 275. IG 7-15. Previous report 6-19

IDAHO

★STATE HIGHWAY PROJECT— Boise, Idaho

Award to Western Construction Co., Box 628, Pocatello, $168,499, by Department of Highways, 603 Main St., Boise, for construction of roadway, drainage structures, bituminous surface treatment, 13.966 mi. S.H. 22, Reno Point-Lidy Hot Springs, Clark and Jefferson counties; FAP Ds-6840(6). Bids opened July 8. LB 7-15. Previous report 7-10

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., August 5, by Department of Highways, 603 Main St., Boise, for the following highway project. Specifications with above office. $5 charge.

SURFACING, DRAINAGE, SH 28, Sage Jct. - A.E.C. Jct.— Constructing roadway, drainage structures, plantmix bituminous surfacing 14.858 mi., Jefferson County; FAS DS-6751(1).

Quantities: 34,500 c.y. unclassified excavation; 760 c.y. excavation for structures; 294,000 c.y. borrow; 78,500 tons selected borrow, class A (Alt. 1); 168,000 y.u. haul; 660 c.y. mechanical tamping; 117,500 tons selected base course, 3" max. (Alt. 2); 56,300 tons crushed gravel base course, type B, ¾" max.; 84,400 gals. MC-1 asphalt road material for prime coat; 1,380 tons blotter material, class C; 1,670 tons 120-150 penetration asphalt road material for plantmix; 32,800 tons plantmix bituminous surfacing, class D; 860 tons plantmix bituminous surfacing for approach roads; 16.5 c.y. concrete, class A; 280 lb. metal reinforcement, 320' pipe culvert, various sizes; 600' pipe siphon, 24" to 42".
RM 7-15

●STATE HIGHWAY PROJECTS— Boise, Idaho

Bids will be opened 2 p.m., July 29, by Department of Highways, 603 Main St., Boise, for the following highway projects. Specifications with above office. $5 charge.

ROADMIX SURFACING, South Kimball Road—Roadmix bituminous surfacing 1.342 mi., Canyon County; FAP DS-3736(1).

Quantities: 4,000 tons crushed gravel in windrows, ¾" max.; 210 ton MC-3 asphalt road material for roadmix; 200 tons bituminous surfacing; 8,900 gal. RC-5 asphalt road material for seal coat; 430 tons cover coat material, class 3.

ROADMIX SURFACING, Graves Creek Rd., Cottonwood-Keuterville Rd., Cottonwood-Winona Rd.— Roadmix bituminous surfacing 2.079 mi. (Graves Creek), 2.738 mi. (Cottonwood-Keuterville), 2.041 mi. (Cottonwood-Winona), Idaho County; FAP S-4711(2), S-4711(2), S-4717(3).

Quantities: 9,240 tons crushed rock surfacing, windrows, ¾" max.; 370 tons MC-3 asphalt road material for roadmix; 34,850 gals. MC-5 asphalt road material, seal coat; 1,250 tons cover coat material, class 2; 25 tons premix patching material.

ROADMIX SURFACING, BRIDGES, STOCKPILES— State Highway 33, Victor-Wyoming Line—Constructing roadway, 4 concrete bridges, roadmix bituminous surfacing, 5.832 mi., Teton County; FAP F-6521(2), Stockpile No. 230.

Quantities: 45 acres clearing and grubbing; 300,000 c.y. unclassified excavation; 4,555 c.y. excavation for structures; 151,000 c.y. borrow; 4,550 c.y. selected borrow, class A; 53,000 y.u. haul; 4,370 c.y. mechanical tamping; 40 stas. interceptor ditches; 12,300' small ditches; 30,500 c.y. stripping material deposits; 760' trenching.

SEAL COATING, Highway U.S. 95, Genesee, Lewiston Hill—Seal coating 15.1 mi. from Washington state line north (U.S. 95), .772 mi. connection to Genesee, 5 mi. section of Lewiston Hill north from approach to Clearwater Bridge, Nez Perce and Latah counties; FAP F-4114(9), State Projects ST-M-4114(514), ST-M-4114(519).

Quantities: F-4114(9)—58,000 gal. RC-5 asphalt road material, seal coat; 2,950 tons cover coat material from stockpiles. ST-M-4114(514)—22,000 gal. RC-5 asphalt road material for seal coat; 1,100 ton cover coat material from stockpile; ST-M-4114(519) 17,500 gal. RC-5 asphalt road material for seal coat; 950 tons cover coat material from stockpiles.
RM 7-15

▲DAM ENLARGEMENT— Carey, Idaho

Ten bids received by Bureau of Reclamation, Rupert, for enlargement of Little Wood River Dam, near Blaine County, Idaho; DC-5042. Bids opened July 10. LOW BIDS: Lewis Hopkins & Co., and A. R. Sime, (joint venture), Box 930, Pasco, $1,093,945; Holland Construction Co., and F. L. Glynn & Co., (joint venture), 1121 S. 3rd, Bozeman, $1,187,675. HI: Morrison-Knudsen Co., Box 450, Boise, $1,471,741. Completion time two years.
LC 7-12. Previous report 6-4

●INSTALL PUMP STATION EQUIPMENT— Garden City, Idaho

Bids will be opened 8 p.m., August 4, by Village of Garden City, Village Hall, Ada County, for installing waterworks pump station equipment and miscellaneous ma-

leting water and sewage
lans with above office. $5
er: Carlyle W. Briggs,
Bldg., 619 Grove St., Boise.
GROUP No. 4—deep well
hydro-pneumatic p essure
pumping equipment; air
ROUP No. 8—Pump Station
install pump by-pass valves,
r, recorder, chlorinator dis-
i. BO 7-11

R SEWERS (Phase 1)—
Idaho Falls, Idaho

ceived and held under ad-
ity Council, City Hall, Idaho
ystem of interceptor sewers
stes from the south and east
daho Falls to the site of the
age treatment plant and to
age from four existing pump-
Plans by Cornell, Howland,
rryfield, consulting engineers,
dg., Boise. Bids opened July
S: Kloepfer Construction Co.,
gan, Utah, $372,139; Intermoun-
22 Grove St., Boise, $459,664;
Nelson, Lewisville Road, Idaho
9. LB 7-12. Previous report 6-10

YSTEM, TREATMENT PLANT—
Pocatello, Idaho

be called in August by City
, City Hall, Pocatello, for con-
ewage treatment plant and ad-
wer lines within the city. Plans
on & Voeller, consulting engi-
N. 2nd, Pocatello.
LB 7-3. Previous report 6-21

IMPROVEMENTS, SEWER
Pocatello, Idaho
ALS—
to Brennan Construction Co., 718
ocatello, $72,360, by City Council,
Bldg., 209 E. Lewis, Pocatello, for
ion of street improvements and
sewer laterals in Local Improve-
strict No. 91, and street improve-
r Project St. 1-58.
LB 7-12. Previous report 7-8

ET IMPROVEMENTS—
Sandpoint, Idaho
ds to Inland Asphalt Co., 10th and
, Spokane, $91,238, (surfacing), Henry
en, 405 St. Claire Ave., Sandpoint,
(grading and backfill) and Dan
, 215 Pacific, Sandpoint, $47,221
g), by City Council, City Hall, Sand-
for grading, gravel backfilling, curb-
nd surfacing with plantmixed bi-
ous concrete on Ontario St. from
Ave. to Lavina Ave., et al, LID
, Sandpoint. Plans by Arthur Tiggel-
engineer, Farmin Bldg., Sandpoint.
opened July 7.
MH 7-12. Previous report 6-26

AGE DISPOSAL PLANT—
Twin Falls, Idaho
nd issue for $1,600,000 defeated in May
xtension of the present sewage system
arts of the city and construction of a
sewage disposal plant in Twin Falls,
were to have been called by Twin
City Commissioners, City Hall, Twin
. City engineer: Norman Crosley, Box
Twin Falls.
GH 7-12. Previous report 3-7

ONTANA

VING— Billings, Mont.
(Estimated cost $33,400)
A hearing will be held at 11 a.m., July
at the Courthouse, by the Yellowstone
unty Commissioners, Billings, on pro-
sed creation of rural SID No. 408, for
stalling blacktop paving in Wyoming Ave.,
ellowstone Ave., Clark Ave., Lewis Ave.,
urlington Ave., Lillis Lane, and 25th St.
., all west from 24th St. W., also instal-
tion of two catch basins at east end of
Wyoming Ave., with connections to a pipe
rain in 24th St. W., Billings. EE 7-16

WATER SYSTEM— Columbia Falls, Mont.
Plans for improvements to the municipal
water system have been approved by the City Council, City Hall, Columbia Falls. Installation of a new 10" main to serve the new Columbia Falls High School is the first improvement, estimated at $40,000. Engineers: Morrison-Maierle, Inc., 910 Helena Ave., Helena. RB 7-3. Previous report 6-13

HIGHWAY CONSTRUCTION—
Columbia Falls, Mont.

A proposed new highway connecting Glacier National Park with adjoining Waterton Lakes National Park in Canada on the west side of the Continental Divide was approved recently by the U.S. Senate. Construction is scheduled for two segments of the proposed highway within the U.S. by the National Park Service. Work may be started late this summer on a new 13-mi. section from Apgar, inside Glacier Park near west entrance, up Camas Creek to vicinity of Big Creek Ranger Station of the U.S. Forest Service, connecting with existing Forest Service North Fork road just outside western park boundary. A roadless area of about 34 mi., most of which is in British Columbia, must be built to complete the new highway. Construction of this project would create a loop road about 130 mi. in length connecting the two units of Waterton-Glacier International Peace Park on the west.

Cost estimate for the Camas Creek cut-off road, including a bridge over the North Fork of the Flathead River, is about $3,000,000, which will provide a highway to replace the existing 30 mi. truck trail between Apgar and Polebridge on the proposed Glacier-Waterton road connection. RB 7-12

SATELLITE TELEVISION STATION—
Columbia Falls, Mont.

Television engineers have recently been making tests with a view toward erecting a satellite television station to rebroadcast Spokane and Missoula television programs in this mountainous area. Video Utility of Spokane has completed tests on Teakettle Mountain, just east of Columbia Falls, and indicates that a satellite there would provide reception for Columbia Falls, Hungry Horse, Martin City and West Glacier communities. Other surveys have been made on Big Mountain, near Whitefish; on Lone Pine Mountain, just southwest of Kalispell; and Buffalo Hill, north of Kalispell. Tests were made for Teakettle Television Association. Cost of building a satellite station, erecting the necessary power line and building an access road is estimated at between $5,000 and $10,000. RB 7-15

▲TANK FOUNDATION—Great Falls, Mont.
Six bids received by City Council, City Hall, Great Falls, for construction of elevated tank foundations under Contract No. 6. Bids opened July 7. LOW BIDS: Leigland Co., Box 1862, Great Falls, $14,273; Palmer Construction Co., 1324 Central Ave. W., Great Falls, $14,888; Utility Builders, Inc., Box 1154, Great Falls, $17,977.
LB 7-11. Previous report 6-27

★STORM SEWER, WATERMAIN—
Laurel, Mont.
Awards announced by City Council, City Hall, for three special improvement district projects, as follows: AWARDS—SID No. 86—Construction of storm sewer in downtown area; Awarded to Walter Hoven, Inc., 1016 Vaughn Lane, Billings, $4,198 (section 1). Long Construction Co., Lockwood Flats, Billings, $6,224 (section 2). SID No. 87—Construct water main in west Laures; awarded to Holm Sutherland Co., 19 Foster Lane, Billings, $5,728. SID No. 88—Water main in Magnus subdivision; awarded to Barry O'Leary Inc., 215 N. 16th St., Billings, $2,493. EE 7-9

●ASPHALT— Laurel, Mont.
Bids will be opened 5 p.m., July 24, by Dorothy P. Bundy, city clerk, City Hall, Laurel, for furnishing 4,000 tons hot mix asphalt surface course in Laurel. Plans with city engineer, above address. 5% bid bond. MH 7-16

■HATCHERY IMPROVEMENTS—
Lewistown, Mont.
Planholders announced by Montana State Fish and Game Commission, State Capitol Bldg., Helena, for construction of 30 reinforced concrete, race-way type fish ponds at fish hatchery on Spring Creek near Lewistown. Bids to be opened 11 a.m., July 22.
Planholders: McCormack Construction Co., Box 792, Pendleton, Ore.; Montana Engineering & Construction Co., 353 N. Main St., Helena; Paper-Calmenson & Co., Box 444, Billings; John Gaugen and Son, Lewistown; Schye & Sullivan, White Sulphur Springs; Carl Weisman & Son, 300 3rd Ave. S., Great Falls.
LS 7-12. Previous report 7-8

■DIKE, DRAINAGE— Malta, Mont.
Planholders announced for construction of 40,921 c.y. earth dike and drainage excavation at Sleeping Buffalo Waterfowl Development area, near Malta. Bids will be opened 11 a.m., July 21, by State Fish and Game Commission, Walter J. Everin, director, State Capitol Bldg., Helena.
Planholders: George Wright, Box 182, Hinsdale; Jack C. Schye, Box 294, Glasgow; Schye & Sullivan, White Sulphur Springs; G. E. Marshall, Box 388, Roundup; Copple Construction Co., Malta.
LS 7-12. Previous report 7-5

■FISH POND— Miles City, Mont.
Planholders announced for constructing a 20-acre fish pond at Miles City. Bids will be opened 11 a.m., July 22, by State Fish & Game Commission, W. J. Everin, acting director, State Capitol Bldg., Helena.
Planholders: Byron Corcoran, Ryegate; L. P. Anderson, contractor, West of City, Miles City; Regan Plumbing & Heating Co., 11 S. 9th, Miles City; Doyle's Plumbing & Heating Co., 112 N. 7th, Miles City; Virgil Smith, 509 Bridge St., Miles City; Gus M. Albert, 103 S. 6th, Miles City; Darold C. Jones, Skaar Route, Sidney; Holm & Sutherland Co., Inc., Box 579, Billings; Schye & Sullivan, White Sulphur Springs.
LS 7-12. Previous report 7-8

●GRADING, GRAVELING—Missoula, Mont.
Bids will be opened July 29 by Bureau of Public Roads, 342 Post Office Bldg., Missoula, for grading, graveling and bituminous surfacing 6½ mi. of U.S. Highway 10A from Noxon southeast to the Trout Creek bridge, around the new Noxon reservoir. Plans with above office. EE 7-16

●GRADING, SURFACING—
Sanders County, Mont.
Bids will be opened 10 a.m., July 29, by Bureau of Public Roads, 824 Pittock Block, Portland, Ore., for grading and surfacing 6.517 mi. of Clark Fork Highway in Kanisksu National Forest, Sanders County; Proj. No. 6-B1, C1, I4. Plans with above office. 5% bid bond.
Quantities: 132 acres clearing, grubbing; 500,000 c.y. excavation; 151,000 c.y. selected borrow, topping; 292,000 yd. mi. overhaul; 22,000 tons crushed aggregate base; 160,000 gals. asphalt, MC-3, road mix; 8,000' culvert pipe; 252' structural plate pipe. LB 7-16

ALASKA

■AIRPORT LANDING STRIP—
Allakaket, Alaska
Planholders announced for construction of an Airport Landing Strip to be located near Allakaket; Project No. 9-50-069-01. Bids will be opened 2 p.m., A.S.T., July 22, by Alaska Aeronautics and Communications Commission, room 202, Glover Bldg., Anchorage.
Planholders: Ramstad Construction Co., Box 1454, Anchorage; Williams Equipment Co., Box 1190, Fairbanks; Smith, Brown and Root, Box 1648, Anchorage; Basher, Inc., Box 157, Anchorage.
Quantities: 16,115 c.y. embankment; 7,222 c.y. surface course; 1 wind cone; 1 segmented circle. AL 7-12. Previous report 7-5

★MUNICIPAL DOCK— Anchorage, Alaska
Award to DeLong Corp., 29 Broadway, New York, $5,083,607 (Sched. 1, basic), by City Council, City Hall, Anchorage, for con-

structing 600' municipal dock and port facility consisting of concrete deck on steel piling, railroad, trestle and highway approaches, dredging and installing two 40 ton and two 5-ton level-luffing cranes on the east bank of Knik Arm about one mi. north of Anchorage and 500' north of existing ocean dock. Bids opened May 29. Consulting engineers: Tippetts - Abbett - McCarthy & Stratton, 62 W. 47th, New York.

AL 7-11. Previous report 6-3

■ **SANITARY SEWER— Anchorage, Alaska**

Planholders announced for constructing 8" sanitary sewer from Sta. 0+00 to Sta. 11+7-.5, complete with manholes, connections, etc., Anchorage Depot sanitary Sewer, Proj. F-02(58), Contract One, Anchorage. Bids will be opened 11 a.m., P.S.T., July 22, by Bureau of Public Roads, 319 Federal Bldg., Juneau.

Planholders: John C. Miller, Box 1654, Anchorage; Walter L. Wilson, 2203 Roosevelt Drive, Anchorage; Ramstad Construction Co., Box 1454, Anchorage; Sweta Construction Co., Box 5297, Mountain View; Inlet Construction Co., Box 3507, Anchorage; Wilson and Chamberlain, 529 A St., Anchorage; Contractors Foundries Corp., Suburban Station Bldg., Philadelphia, Pa.; William D. Burk, Box 1618, Anchorage.

JU 7-15. Previous report 7-8

★LIGHTING, LANDING SYSTEMS, PARKING APRON— Cold Bay, Alaska

Award to Central Construction, 428 Medical Arts Bldg., Seattle, $540,555, by Civil Aeronautics Administration, Procurement Branch, 219 E. 5th Ave., Anchorage, for constructing approach lighting system (Sched. 1), instrument landing system (Sched. 2), 32'x68' fire and crash station with living quarters (Sched. 3), and 14'x20' operations room for Alaska Communications System (Sched. 5), at Cold Bay; Proposal 5-58-84. Alternates under Sched. 3, and Sched. 4 in its entirety are not awarded under this contract.

AL 7-12. Previous report 7-1

■ **BEAM-TYPE GUARDRAIL— Juneau, Alaska**

Planholders announced for constructing .971 mi. (5,125') of beam-type guardrail at various locations between mi. 11 and 37, Seward Anchorage Highway, Proj. F-031-1 (3). Bids will be opened 11 a.m., P.S.T., July 23, by Bureau of Public Roads, room 311, Federal Bldg., Juneau.

Planholders: John C. Miller, Box 1654, Anchorage; M. P. Munter, c/o Westward Hotel, Anchorage; Arctic Welding Co., Box 44, Cordova; Rogers-Babler, Room 202 Willholth Bldg., 610 C St., Anchorage; Wayne Construction Co., 3810 Stone Way, Seattle.

JU 7-15. Previous report 7-10

■ **GRADING, BITUMINOUS SURFACING— Juneau, Alaska**

Planholders announced for 1.575 mi. grading and paving, Proj. DF-037-1(6) Fairbanks-Nenana Highway, Territory of Alaska, on which bids will be opened 11 a.m., P.S.T., July 22, by Bureau of Public Roads, 319 Federal Bldg., Juneau.

Planholders: Green Construction Co., 321 Locust St., Des Moines, Iowa; John C. Miller, Box 1654, Anchorage; Williams Equipment Co., Inc., Box 1190, Fairbanks; Ramstad Construction Co., Box 1454, Anchorage; McLaughlin, Inc., W. W. Palmer, Copper Center; Morrison-Knudsen Co., Inc., Box 320, Anchorage; William A. Smith Contracting Co., Inc., & Brown & Root, Box 1648, Anchorage.

JU 7-15. Previous report 7-2

■ **GRADING— Juneau, Alaska**

Planholders announced for grading 3.014 mi., Alaska Forest Development Road Project Chugach 153-B, Snug Harbor Road, Kenai Peninsula, Chugach National Forest, Territory of Alaska. Bids will be opened 11 a.m., P.S.T., July 29, by Bureau of Public Roads, room 311, Federal Bldg., Juneau.

Planholders: John C. Miller, Box 1654, Anchorage; Rogers & Babler, Room 202 Willholth Bldg., 610 C St., Anchorage; Walter L. Wilson, 2203 Roosevelt Drive, Spenard; Morrison-Knudsen, Box 320, Anchorage; M. P. Munter, Westward Hotel, Anchorage; North Pacific Consultants, 220 S.W. Alder St., Portland, Ore.; A & G Excavation, Box 4-1349, Spenard; Basher, Inc., Box 517, Anchorage.

JU 7-15. Previous report 7-10

BITUMINOUS SURFACING— Juneau, Alaska

Bids rejected as too high and will be readvertised later this winter by Bureau of Public Roads, 319 Federal Bldg., Juneau, for bituminous surfacing Alaska-Highway, Territory of Alaska; Proj. DF-062-1(3). Bids opened June 3. LOW BID: Green Construction Co., Des Moines, Iowa, $385,336.

JU 7-11. Previous report 7-1

★AIRPORT LANDING STRIP— Red Devil, Alaska

Award to Jack Newbauer, Red Devil, $167,877, by Director of Aeronautics, Alaska Aeronautics and Communications Commission, 202 Glover Bldg., Anchorage, for construction of airport landing strip near Red Devil; Proj. No. 9-50-079-01.

AL 7-15. Previous report 7-1

ASPHALT PAVING— Seward, Alaska

Bids will be called soon by City Council, City Hall, Seward, for construction of ten blocks of asphalt paving with curbs and gutters and storm drains within the city limits, Seward. Engineers: Rutledge-Johnson and Trych, Glover Bldg., Anchorage.

LB 7-13

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., AUGUST 5
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, August 5, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashiers' check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payments to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 8 inclusive.

The improvements for which bids will be received follow:

1. Constructing Bridge Piers on PSH No. 1 in King County, SEATTLE FREEWAY-LAKE WASHINGTON SHIP CANAL BRIDGE PIERS NOS. 18 TO 24 INCLUSIVE, FAP No. I-5-3(34)169, involving about 5,890 cubic yards of Common Excavation, 1,105 tons of Ballast and Crushed Surfacing, 40 cubic yards of Crushed Cover Stone, 5 tons of Asphalt Cement, 319 square yards of Cement Concrete Pavement and Sidewalk, 230 linear feet of Cement Concrete Curb, 19,120 cubic yards of Concrete, 1,755,000 pounds of Steel Reinforcing Bars and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment, Paving with Asphaltic Concrete, Installing Illumination and Signing on 4.528 miles of Primary State Highway No. 1 in Grant County, EPHRATA TO SOAP LAKE FAP No. DF-031-1(8), involving about 267 stations of Grading, 51,500 tons of Crushed Surfacing and Ballast, 239 stations of Bituminous Surface Treatment, 26,015 tons of Asphaltic Concrete, 4,836 linear feet of Cement Concrete Curb, 1,196 linear feet of Metal Pipe, 78 linear feet of Concrete Pipe, a lump sum bid for Three Illumination Systems, a lump sum bid for Signing and other items.
3. Constructing Two Reinforced Concrete Bridges on 0.021 mile of Primary State Highway No. 2 in King County, F STREET AND M STREET OVERCROSSINGS IN AUBURN, FAP No. F-046-1(9), involving about 486 linear feet of Standard Bridge Railing, 962 cubic yards of Concrete, 150,000 pounds of Steel Reinforcing Bars, a lump sum bid for Two Superstructures (about 306 cubic yards of Concrete and 33,200 pounds of Steel Reinforcing Bars) and other items.
4. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 1.542 miles of a Skagit County Road, EAST SAUK ROAD, FAS No. DS-0758(3), involving about 15 acres of Clearing, 33,720 cubic yards of Common Excavation and Borrow, 7,520 cubic yards of Solid Rock Excavation, 3,002 cubic yards of Riprap, 13,430 cubic yards of Selected Roadway Borrow, 470 linear feet of Concrete Pipe, 355 linear feet of Metal Pipe, 124 linear feet of Structural Plate Pipe-Arch, 112 Guide Posts and other items.
5. Surfacing and Constructing Bituminous Road Mix on 4.730 miles of a Spokane County Road, MONROE ROAD, FAS No. DS-0473(1), involving about 12,325 tons of Crushed Surfacing and Mineral Aggregate, 13,300 tons of Selected Roadway Borrow, 580 cubic yards of Crushed Cover Stone, 330 tons of Asphalt Cement and other items.
6. Draining, Grading, Surfacing, Paving with Asphaltic Concrete and Stockpiling on 1.380 miles of a Spokane County Road, GRAHAM ROAD, DAP No. R-AD-19(1), involving about 8,460 cubic yards of Common Excavation, 43,920 tons of Crushed Surfacing, Crushed Cover Stone and Maintenance Rock, 2,540 tons of Asphaltic Concrete, 208 linear feet of Metal Pipe and other items.
7. Surfacing and Constructing Bituminous Surface Treatment on 2.960 miles of a Klickitat County Road, GOLDENDALE-BICKLETON, FAS No. DS-0396(6), in-

volving about 5,290 cubic yards of Crushed Surfacing and Crushed Cover Stone, 110 tons of Asphalt Cement and other items.

8. Draining, Grading and Surfacing on 0.889 mile of Thurston County Roads, MULLEN ROAD AND JOHNSON POINT ROAD, FAS Nos. S-0982(2) and DS-0504(1), involving about 24,990 cubic yards of Unclassified Excavation and Borrow, 3,710 cubic yards of Crushed Surfacing and Ballast, 448 linear feet of Concrete Pipe and other items.

9. Grading, Surfacing and Paving with Cement Concrete and Asphaltic Concrete on 0.600 mile of a Bellingham City Street in Whatcom County, ACESS ROAD TO WESTERN WASHINGTON COLLEGE OF EDUCATION, a State Project, involving about 11,470 cubic yards of Unclassified Excavation, 1,560 cubic yards of Selected Roadway Borrow, 470 cubic yards of Crushed Surfacing, 210 tons of Asphaltic Concrete, 9,620 square yards of Cement Concrete Pavement, 6,225 linear feet of Cement Concrete Curb, 845 square yards of Cement Concrete Sidewalk, 36 cubic yards of Concrete, 1,510 pounds of Steel Reinforcing Bars, 729 linear feet of Concrete Pipe and other items.

10. Stockpiling Crushed Surfacing, Crushed Screenings and Maintenance Rock on Primary State Highway No. 22 in Lincoln and Stevens Counties, DAVENPORT TO JST, PSH No. 3, a State Project, involving about 69,500 tons of Crushed Materials and other items.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways

6233—7-19, 26

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., JULY 22 and 23
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 a.m. on July 22, 1958 and July 23, 1958. The **Form For Bid Bond** is no longer included in the **Instructions to Bidders**, and no bid bond will be acceptable. No proposal will be considered unless accompanied by a proposal guaranty in an amount of at least (5) per cent of the bid, made unconditionally payable to the State Highway Commission of Montana, which at the bidder's option may be cash, cashier's check, or certified check. This letting has been divided into two sections, and bids will be opened on two consecutive dates as shown below:

BID PROPOSALS TO BE OPENED JULY 22, 1958

(Bids will be received until 9:00 a.m. on July 22, 1958. The proposals will be publicly opened and read immediately thereafter. YOUR ATTENTION IS DIRECTED TO THE 9:00 A. M. HOUR SET FOR THE OPENING OF BIDS IN ROOM 151 OF THE STATE HIGHWAY DEPARTMENT BUILDING.)

1. **I-IG-ING 15-8(3)351** — Grade, aggregate surfacing, plant-mix surfacing, seal-coat oiling, drain, and construction of one 276' steel interchange and one 360' combination steel railroad overpass concrete interchange on 5.623 miles on the Shelby-West Side Road in Toole County, involving about 1,287,008 cu. yds. excavation; 424 cu. yds. gravel backfill; 233,696 mi. yds. overhaul; 233,208 tons crushed aggregate; 228,275 tons uncrushed aggregate; 52,950 tons plant-mix bituminous surfacing; 28,426 M gals. watering; 4,620 units rolling; 2,918 tons asphalt cement; 384 tons cutback asphalt; 319 tons emulsified asphalt; 374 lin. ft. structural plate pipe; 4,082 lin. ft. reinforced concrete pipe; 170 lin. ft. relay pipe culverts; 9,087.5 lin. ft. guard rail; 97 hours watering; 4,041 rods wire fence; 142 each fence panels; 3,098 lin. ft. concrete curb and gutter; 9,560 lin. ft. concrete median curb; 1,304 sq. yds. concrete sidewalk; 6 each 24' stockguards; 823 lin. ft. prebored holes for piles; all lump sum structural steel; all lump sum electrical conduit system; 1994 lin. ft. steel bridge rail; 235,502 lbs. reinforcing steel; 1,717.7 cu. yds. concrete; 10.50 cu. yds. structure excavation; all lump sum drainage system; 10,819 lin. ft. driving treated timber piles; 11,345 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles; 3,770 lin. ft. precast prestressed concrete beam; and other items. Project to be completed in 300 calendar days.

2. **I 90-3(3)157 U2**—Construction of one 113' and one 153' concrete dual structures and four 17.25' concrete minor structures on the Bearmouth-Deer Lodge Road in Granite and Powell counties, involving about: 610.56 lin. ft. steel beam bridge rail; 300,957 lbs. reinforcing steel; 2,610.4 cu. yds. concrete; 2,565 cu. yds. structure excavation; 8,360 lin. ft. driving treated timber piles; 8,800 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles; 3,060 lin. ft. precast prestressed concrete beam; and 610 lin. ft. steel bridge rail. Project to be completed by July 31, 1959.

3. **DF 176(6)**—Grade, aggregate surfacing, plant-mix surfacing, seal-coat oiling, and drain 5.720 miles on the Augusta-Sun River Road in Cascade County, involving about: 149,943 cu. yds. excavation; 32 cu. yds. riprap; 100 cu. yds. gravel backfill; 68,135 mi. yds. overhaul; 149,052 tons crushed aggregate; 16,056 tons plant-mix bituminous surfacing; 5,000 M gals. watering; 900 units rolling; 882.17 tons asphalt cement; 150.61 tons cutback asphalt; 125.47 tons emulsified asphalt; 1,108 lin. ft. corrugated metal pipe; 266 lin. ft. structural plate pipe; 3,102 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 80 hours watering; 4,450 lbs. reinforcing steel; 44.5 cu. yds. concrete; and other items. Project to be completed in 180 calendar days.

4. **DF 198(4), F 334(15)U2 and DF 334(16)**—Grade, soil cement stabilization, plant-mix surfacing, seal-coat oiling, and drain 9.417 miles on the Broadus-Olive and Crow Agency-Broadus, and seal-coat oil on 10.980 miles on the Crow Agency-Broadus Road in Powder River County, involving about: 553,620 cu. yds. excavation; 104 cu. yds. riprap; 2,500 cu. yds. scoria; 386 cu. yds. gravel backfill; 49,024 cu. yds. soil aggregate; 41,783 mi. yds. overhaul; 5,660 tons crushed aggregate; 25,048 tons plant-mix bituminous surface; 9,415 M gals. watering; 1,257 units rolling; 2,003.97 tons asphalt cement; 619.93 tons cutback asphalt; 186 lin. ft. corrugated metal pipe; 386 lin. ft. structural plate pipe; 1,736 lin. ft. reinforced concrete pipe; 1,414 lin. ft. relay pipe culverts; 181 hours watering; 17,152 bbls. Portland cement; 191,752 sq. yds. processing; and other items. Project to be completed in 190 calendar days.

5. **U-UG 405(3) U2**—Grade, aggregate surfacing, plant-mix surfacing, seal-coat oiling, and drain 0.832 mile on Fifth Street, Sixth Street and Madison Street, Missoula Road in Missoula County, involving about: 91,278 cu. yds. excavation; 250 cu. yds. riprap; 100 cu. yds. gravel backfill; 1,141.8 sq. yds. concrete sidewalk; 60,210 mi. yds. overhaul; 35,810 tons crushed aggregate; 6,868 tons plant-mix bituminous surfacing; 2,061 M gals. watering; 350 units rolling; 378.39 tons asphalt cement; 55.23 tons cutback asphalt; 45.98 tons emulsified asphalt; 2,625 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 2,437.5 lin. ft. guard rail; all lump sum traffic-signal system; 15 hours watering; 8,994 lin. ft. remove concrete curb; 700.9 sq. yds. remove concrete sidewalk; 21 each remove drop inlets; 14,858.9 lin. ft. concrete curb and gutter; 1,720.2 lin. ft. concrete median curb; 42 each drop inlets; and other items. Project to be completed in 120 calendar days.

6. **S 127(3) U1**—Grade, aggregate surfacing; and drain 6.383 miles on the Philipsburg-West Road in Granite County, involving about: 508,026 cu. yds. excavation; 135 cu. yds. riprap; 715 cu. yds. binder; 100 cu. yds. gravel backfill; 1,430 mi. yds. haul on binder; 192,493 mi. yds. overhaul; 38,113 tons crushed aggregate; 8,363 M gals. watering; 151 units rolling; 2,926 lin. ft. corrugated metal pipe; 28 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; and other items. Project to be completed in 200 calendar days.

7. **S 127(3)U2**—Construction of one 101.5' reinforced concrete bridge on the Philipsburg-West Road in Granite County, involving about: 205.1 lin. ft. steel beam bridge rail; 19,571 lbs. reinforcing steel; 160.2 cu. yds. concrete; 175 cu. yds. structure excavation; and 400 lin. ft. precast prestressed concrete beam. Project to be completed by July 31, 1959.

8. **S 219(3)**—Plant-mix surfacing and seal-coat oiling on 6.006 miles on the Big Sandy-Rudyard Road in Hill County, involving about: 1,098 tons crushed aggregate; 11,982 tons plantmix bituminous surfacing; 35 units rolling; 659.75 tons asphalt cement; 38.94 tons cutback asphalt; 99.43 tons emulsified asphalt; all lump sum furnish and maintain water plant; and 31 hours watering. Project to be completed in 100 calendar days.

9. **S 245(1)**—Grade, aggregate surfacing, bituminous surface treatment, and drain 6.728 miles on the Gildford-South Road in Hill County, involving about: 203,187 cu. yds. excavation; 102 cu. yds. gravel backfill; 58,687 mi. yds. overhaul; 77,919 tons crushed aggregate; 4,543 M gals. watering; 815 units rolling; 156 tons cutback asphalt; 157 tons emulsified asphalt; 1,052 lin. ft. corrugated metal pipe; 116 lin. ft. structural plate pipe; 100 lin. ft. relay pipe culverts; 79 hours watering; and other items. Project to be completed in 180 calendar days.

10. **DS 251(2)**—Grade, aggregate surfacing, bituminous surface treatment, and drain 6.342 miles on the Helena North and East Road in Lewis and Clark County, involving about: 106,404 cu. yds. excavation; 100 cu. yds. gravel backfill; 4,596 mi. yds. overhaul; 105,531 tons crushed aggregate; 3,640 M gals. watering; 728 units rolling; 148 tons cutback asphalt; 148 tons emulsified asphalt; 600 lin. ft. corrugated metal pipe; 986 lin. ft. reinforced concrete pipe; 1,078 lin. ft. relay pipe culverts; 75 hours watering; and other items. Project to be completed in 150 calendar days.

11. **DS 302(14)**—Grade, aggregate surfacing, road-mix surfacing, seal-coat oiling and drain 2.197 miles on the Terry-Brockway Road in Prairie County, involving about: 298,147 cu. yds. excavation; 2,285 cu. yds. riprap; 100 cu. yds. gravel backfill; 48,608 mi. yds. overhaul; 9,469 tons crushed aggregate; 22,164 tons uncrushed aggregate; 5,031 M gals. watering; 746 units rolling; 241.92 tons cutback asphalt; 1,057 lin. ft. corrugated metal pipe; 100 lin. ft. relay pipe culverts; 4,075 lin. ft. guard rail; 12 hours watering; 2.041 miles processing; 556 sq. yds. processing; and other items. Project to be completed in 150 calendar days.

12. **DS 304(4)**—Aggregate surfacing, plant-mix surfacing, and seal-coat oiling 2.84 miles on the Galen-Anaconda Road in Deer Lodge County, involving about: 28,096 tons crushed aggregate; 5,403 tons plant-mix bituminous surfacing; 551 M gals. watering; 135 units rolling; 297.45 tons asphalt cement; 56.56 tons cutback asphalt; 47.2 tons emulsified asphalt and 15 hours watering. Project to be completed in 90 calendar days.

BID PROPOSALS TO BE OPENED JULY 23, 1958:

(Bids will be received until 9:00 a.m. on July 23, 1958. The proposals will be publicly opened and read immediately thereafter. YOUR ATTENTION IS DIRECTED TO THE 9:00 A.M. HOUR SET FOR THE OPENING OF BIDS IN ROOM 151 OF THE STATE HIGHWAY DEPARTMENT BUILDING.)

13. **I 90-1(4)60 U1**—Grade, aggregate surfacing, plant-mix surfacing, seal-coat oiling, and drain 4.991 miles on the Tarkio-Missoula Road in Mineral County, involving about: 1,117,099 cu. yds. excavation; 241 cu. yds. gravel backfill; 758,945 mi. yds. overhaul; 324,465 tons crushed aggregate; 34,139 tons plant-mix bituminous surfacing; 23,177 M gals. watering; 262.26 tons cutback asphalt; 218.88 tons emulsified asphalt; 1,874.49 tons asphalt cement; 650 lin. ft. corrugated metal pipe; 204 lin. ft. structural plate pipe; 3,401 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 7,037.5 lin. ft. guard rail; 102.79 acres clearing; 3,684 units rolling; 30.82 acres grubbing; 67 hours watering; 3,209 rods wire fence; 87 each fence panels; 9 each 24' stockguards; and other items. Project to be completed in 300 calendar days.

14. **I 90-1(4)60 U2**—Construction of two 128' concrete highway-over-highway overpasses and one 17.25' concrete machinery underpass on the Tarkio-Missoula Road in Mineral County, involving about: 550.86 lin. ft. steel beam bridge rail; 117,817 lbs. reinforcing steel; 991.1 cu. yds. concrete; 1,015 cu .yds. structure excavation; 1,798 lin. ft. driving treated timber piles; 1,860 lin. ft. furnishing treated timber piles; all lump sum treated timber test piles; and 1,500 lin. ft. precast prestressed concrete beam. Project to be completed by June 30, 1959.

15. **I 90-3(3)157 U1**—Grade, aggregate surfacing, plant-mix surfacing, seal-coat oiling, and drain 9.623 miles on the Bearmouth-Deer Lodge Road in Granite and Powell

counties, involving about: 2,158,144 cu. yds. excavation; 1,817 cu. yds. gravel backfill; 823,588 mi. yds. overhaul; 560,256 tons crushed aggregate; 530,020 tons uncrushed aggregate; 87,649 tons plant-mix bituminous surface; 53,963 M gals. watering; 9,115 units rolling; 4,865.13 tons asphalt cement; 775.43 tons cutback asphalt; 647.96 tons emulsified asphalt; 998 lin. ft. corrugated metal pipe; 2,018 lin. ft. structural plate pipe; 9,508 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 1,962.5 lin. ft. guard rail; 178 hours watering; 6,486 rods wire fence; 1,758 sq. ft. bin-type retaining wall; 23 each median inlet covers; 8 each 12' stock guards; and other items. Project to be completed in 400 calendar days.

16. **DF 62(10) & DF 225(4)**—Grade, aggregate surfacing, plant-mix surfacing, and seal-coat oiling 20.146 miles on the Shelby-Chester and Main Street Shelby Road in Toole County, involving about: 27,151 cu. yds. excavation; 100 cu. yds. gravel backfill; 2.724 cu. yds. concrete; 53,630 tons crushed aggregate; 1,008 M gals. watering; 58,927 tons plant-mix bituminous surfacing; 340 units rolling; 3,240.68 tons asphalt cement; 247.57 tons cutback asphalt; 428.62 tons emulsified asphalt; 94 lin. ft. concrete sewer pipe; 100 lin. ft. relay pipe culverts; 95 hours watering; and other items. Project to be completed in 170 calendar days.

17. **DF 258(11)**—Grade, aggregate surfacing, plant-mix surfacing, seal coat oiling, and drain 5.773 miles on the Wyoming Line-Bridger Road in Carbon County, involving about: 284,992 cu. yds. excavation; 819.8 cu. yds. riprap; 1,243 cu. yds. gravel backfill; 53,930 mi. yds. overhaul; 145,319 tons crushed aggregate; 15,680 tons plant-mix bituminous surfacing; 7,060 M gals. watering; 1,198 units rolling; 862.34 tons asphalt cement; 268.42 tons cutback asphalt; 272 lin. ft. corrugated metal pipe; 928 lin. ft. structural plate pipe; 598 lin. ft. reinforced concrete pipe; 100 lin. ft. relay pipe culverts; 38 hours watering; all lump sum remove existing structure; and other items. Project to be completed in 180 calendar days.

18. **F 270(8)**—Grade and drain 0.266 mile on the Kalispell-Whitefish Road in Flathead County, involving about: 83,949 cu. yds. excavation; 1,820 cu. yds. riprap; 100 cu. yds gravel backfill; 855 M gals. watering; 114 units rolling; 95 tons cutback asphalt; 994 lin. ft. corrugated metal pipe; 936 lin. ft. structural plate pipe; 100 lin. ft. relay pipe culverts; all lump sum remove existing structure; all lump sum maintain detour; and other items. Project to be completed in 90 calendar days.

19. **DS 9(8)**—Reshape, aggregate surfacing, and bituminous surface treatment 5.614 miles on the Cardwell-Boulder Road in Jefferson county, involving about: 48,723 tons crushed aggregate; 12,180 tons uncrushed aggregate; 1,247 M gals. watering; 332 units rolling; 124.10 tons cutback asphalt; 124.10 tons emulsified asphalt; 63 hours watering; 225 hours use of motor grader; and 56 hours use of scraper. Project to be completed in 100 calendar days.

20. **DS 54(5)**—Aggregate surfacing, plant-mix surfacing, seal-coat oiling, 9.121 miles on the Wyoming Line-Broadus Road in Powder River County, involving about: 78,231 tons crushed aggregate; 17,139 tons plant-mix bituminous surfacing; 2,086 M gals. watering; 470 units rolling; 943.57 tons asphalt cement; 326 tons cutback asphalt; 47 hours watering; 365 hours use of motor grader; 91 hours use of scraper; and 55 each guide posts. Project to be completed in 130 calendar days.

21. **S 98(2)**—Reshape, aggregate surfacing, plant-mix surfacing, seal-coat oiling, 12.703 miles on the Wolf Point-North Road in Roosevelt County, involving about: 102,310 tons crushed aggregate; 23,547 tons plant-mix bituminous surfacing; 3,215 M gals. watering; 775 units rolling; 1,295.5 tons asphalt cement; 242.55 tons cutback asphalt; 204 tons emulsified asphalt; 64 hours watering; 509 hours use of motor grader; and 127 hours use of scraper. Project to be completed in 130 calendar days.

22. **S 167(5)**—Grade, aggregate surfacing, bituminous surface treatment, and drain 4.54 miles on the Cardwell-Southeast Road in Madison County, involving about: 245,978 cu. yds. excavation; 405 cu. yds. gravel backfill; 42,342 mi. yds. overhaul; 60,735 tons crushed aggregate; 4,840 M gals. watering; 798 units rolling; 106.39 tons cutback asphalt; 106.39 tons emulsified asphalt; 4,180 lin. ft. corrugated metal pipe; 154 lin. ft. structural plate pipe; 100 lin. ft. relay pipe culverts; 54 hours watering; all lump sum remove miscellaneous items; and other items. Project to be completed in 150 calendar days.

23. **S 223(1) U1**—Grade, aggregate surfacing, bituminous surface treatment, and drain 6.003 miles on the Fairfield-Power Road in Teton County, involving about: 124,045 cu. yds. excavation; 254 cu. yds. gravel backfill; 24,799 mi. yds. overhaul; 77,181 tons crushed aggregate; 60,861 tons uncrushed aggregate; 4,554 M gals. watering; 873 units rolling; 159.02 tons cutback asphalt; 159.02 tons emulsified asphalt; 2,454 lin. ft. corrugated metal pipe; 46 lin. ft. reinforced concrete pipe; 94 lin. ft. relay pipe culverts; 47 hours watering; all lump sum remove existing structures; and other items. Project to be completed in 150 calendar days.

24. **S 223(1) U2**—Construction of two 57' treated timber bridges on the Fairfield-Power road in Teton County, involving about: 43.312 MBM treated timber; 1.29 MBM untreated timber; 1,230 lin. ft. treated timber piles; and the removal of two existing structures. Project to be completed by May 31, 1959.

25. **DS 366(4)**—Grade, aggregate surfacing, and drain 6.569 miles on the Sunburst-Sweetgrass-Westerly Loop Road in Toole County, involving about: 259,816 cu. yds. excavation; 1,142 cu. yds. binder; 100 cu. yds. gravel backfill; 2,284 mi. yds. overhaul on binder; 18,484 mi. yds. overhaul; 51,435 tons crushed aggregate; 4,910 M gals. watering; 1,019 units rolling; 1,854 lin. ft. corrugated metal pipe; 118 lin. ft. relay pipe culverts; and other items. Project to be completed in 180 calendar days.

The above-listed quantities are approximate only.

All bid proposals shall be accompanied by a certified or cashiers' check or cash in the amount of at least 5% of the bid. Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in this proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders at least 72 hours prior to the opening of the bids is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, Helena, Montana. Plans and specifications for all Federal-aid projects are also on file and may be examined in the offices of the Bureau of Public Roads, Helena.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engr.
6221—7-12, 19

SCHOOL ADDITIONS

BIDS CLOSE 10 A.M., P.S.T., AUGUST 20, 1958

Juneau, Alaska

NOTICE TO CONTRACTORS

Invitation for bids (construction contract). Reference: Project Aaa. 50-A-238, Gymnasium and Auditorium Additions, Juneau, Alaska. Date: July 9, 1958. Name and location of project: Juneau-Douglas Gymnasium and Auditorium Addition, Project Aaa. 50-A-238, Juneau, Alaska. Department or Agency: Alaska Public Works, Office of Territories, Department of the Interior. By (Issuing office): Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1181, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M., Pacific Standard Time, August 20, 1958, in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P.O. Box 1181, Juneau, Alaska, and then publicly opened and read aloud. Information regarding bidding material, bid guarantee, and bonds follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 6070 Interior Bldg., Washington 25, D.C.; and Associated General Contractors of America offices as follows: Seattle Chapter, Construction Center, [illegible] West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, [illegible] S.W. Third Avenue, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash., and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska, upon deposit of $25.00, of which will be refunded upon the return of the plans and specifications in good condition within twenty (20) days from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn within thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: GYMNASIUM AND AUDITORIUM ADDITIONS, Project Aaa. 50-A-238, Juneau, Alaska. Contract "A"—The construction of a reinforced concrete and steel gymnasium addition. Contract "B"—The construction of a reinforced concrete and steel auditorium addition. An opportunity will be given in the bid documents of this project to permit a reduction in the base bids should both contracts be awarded to the same bidder. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

6229—7-19, 26, 8-2

JUNIOR HIGH SCHOOL BUILDING

BIDS CLOSE 4 P.M., JULY 29, 1958

Opportunity, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Clerk of the Central Valley School District #356 at the offices of the School District, on or before Tuesday, July 29, 4:00 P.M., P.S.T., for the construction of a New Junior High School Building of frame and masonry construction. The bids will then and there be publicly opened and read aloud.

Bids received after the time fixed for opening cannot be considered.

Separate bids will be received for the following contracts: a. General; b. Mechanical work; c. Electrical work.

Drawings and specifications including contract documents may be examined at the office of the Architect, Victor Louis Wulff, 1526 West Riverside Avenue, Spokane, Washington, and may be obtained there, upon the deposit of $40.00 per set for General, and $25.00 for Mechanical and Electrical.

The sets of plans and specifications will be on file at the following places: Construction Council, 933 West 3rd, Spokane, Wash.; AGC Builders' Chapter II, 1207 Washington, Spokane, Wash.; Builders' Exchange, 317 Builders' Exchange Bldg., Portland, Ore.; Plan Bureau, 2413 Western Ave., Seattle, Wash.; Tri-City Construction Council, 34 Vista Way, Kennewick, Wash.; Basin Construction Council, 515 W. Broadway, Moses Lake, Wash.; AGC Builders' Chapter, 432 St. Helen's, Tacoma, Wash.

The full amount of the deposit for one set of documents, will be refunded to actual bidders upon the return of the documents, unmutilated and without marks and annotations, within 10 days after the time set for opening of bids, but to non-bidders only if returned no later than 10 days before the bid opening.

No bid will be considered unless fully completed in the manner provided in the "Instructions to Bidders" and on the bid form provided by the Architect and each bid must be accompanied by a certified check, cashier's check or bid bond with State-licensed surety or sureties in an amount of not less than five per cent (5%) of the bid for which security is given, made payable to Central Valley School District #356.

The right is reserved to accept or reject any or all bids and waive all claims, or any informalities or irregularities in the bids or in the bidding.

The School District reserves the right to award a contract for this project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interests of the School District. No bidder may withdraw his bid after the time set for the opening thereof, unless the award of contract is delayed for a period exceeding 30 days.

By order of Central Valley School District #356.

North 607 Pines, Opportunity, Wash.
Carl G. Lawson, Secretary

6228—7-12, 19, 26

GRADING

BIDS CLOSE 11 A.M., P.S.T., JULY 29

Juneau, Alaska

NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10, Date: July 2, 1958, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work of completion of 3.014 miles grading Alaska Forest Development Road Project Chugach 153-B, Snug Harbor Road, Kenai Peninsula, Chugach National Forest, Third Judicial Division Territory of Alaska described herein will be received until 11:00 a.m. PST, July 29, 1958. This project consists of the following principal items of work: completion clearing—lump sum; completion grubbing—lump sum; excavation—32,000 cubic yards; install culvert pipe—510 linear feet; overhaul—15,000 cubic yard mile. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6224—7-12, 19

GRADING, SURFACING

BIDS CLOSE 10 A.M., JULY 30

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, July 17, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m., on July 30, 1958, for furnishing the material and performing the work for constructing 2.262 miles Grading and Bituminous Surfacing, Oregon Forest Highway Project 26-C5, Wapinitia Highway, Mt. Hood National Forest, Wasco County, Oregon, involving 25 acres Clearing and Grubbing; 183,000 cu. yds. Excavation; 55,000 tons Crushed Aggregate Base; 57 tons Asphalt, Prime, RC-2; 46 tons Emulsified Asphalt, RS-2; 167 tons Asphalt Cement, 120-150 Penetration; 132 cu. yds. Class A Concrete; 21,000 lbs. Reinforcement Steel; 1,700 lin. ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

6232—7-19

Advance news on contemplated construction projects that are not yet on the drawing boards; profitable leads on building and engineering jobs; the latest information on bid openings; contract awards for buildings, highway and street work, sewer and water works, reclamation jobs, throughout the Far West and Alaska, will be found in these columns.

SANITARY SEWER

BIDS CLOSE 11 A.M., P.S.T., JULY 22

Juneau, Alaska

NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10, Date: July 1, 1958, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment and performing all work for Bureau of Public Roads Anchorage Depot Sanitary Sewer, Project F-02(58), Contract One, Anchorage, Territory of Alaska described herein will be received until 11:00 a.m., PST, July 22, 1958, in Room 319, Federal Building, Juneau, Alaska. This project consists of constructing an eight inch sanitary sewer from Station 0+00 to Station 11+70.5 complete with manholes, connections, etc. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in aminimum amount of 5% of the bid amount and conforming to the regulations of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6222—7-12, 19

GUARDRAIL

BIDS CLOSE 11 A.M., P.S.T., JULY 23

Juneau, Alaska

NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10, Date: July 2, 1958, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project F-031-1(3), Seward-Anchorage Highway, Territory of Alaska described herein will be received

Mr. Architect . . .

you can counteract the high costs of construction

. . . by placing your official advertisements for bids in the construction trade journals of the Northwest—PACIFIC BUILDER & ENGINEER (1st Saturday of each month), PACIFIC ARCHITECT AND BUILDER (3rd Saturday of each month), and CONSTRUCTION NEWS BULLETIN (2d, 4th and 5th Saturdays).

They reach more contractors, subcontractors and suppliers than any twenty newspaper-type publications.

That's why more consulting engineers — and more school districts, cities, counties, state departments, PUDs and federal bureaus — place their advertisements for bids in our columns than in any other publication in the entire Northwest.

IF YOU WISH THE *LOWEST COMPETITIVE BIDS CONSISTENT WITH RESPONSIBLE WORKMANSHIP* we can get them for you, whether your job is located in the Willamette Valley or in the Blue Mountains . . . in Western Washington or the Inland Empire . . . in the Coeur d'Alene or the Snake River Valley . . . on the Flathead or the Feather . . . in the Puget Sound country or in San Francisco.

PACIFIC BUILDER & ENGINEER, Inc.

2418-Third Ave., Seattle 1, Wash.

until 11:00 a.m., PST, July 23, 1958. This project consists of constructing .971 miles of Beam-type Guardrail at various locations between Miles 11 and 37. The principal item of work is beam-type guardrail—5125 linear feet. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6223—7-12, 19

EARTHWORK, DRAINS

BIDS CLOSE 10 A.M., P.S.T., AUGUST 7

Ephrata, Washington

NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, July 8, 1958. Sealed bids, in single, (Specifications No. 117C-515) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division Avenue and C Street N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, August 7, 1958, and then publicly opened for furnishing labor and materials and performing all work for construction of Drains in Block 87. This work will include earthwork for about 8 miles of drains, detention dike and for access ramps, construction of structures along drains including pool drops, baffled pipe outlet, drain inlets, inlet structure, headwalls, concrete pipe chute; road, lateral and ditch crossings, and gravel lining for about 5.3 miles of drains, involving 65,660 cu. yds. excavation; 2,300 cu. yds. backfill, part compacted or puddled; 250 cu. yds. riprap; 150 cu. yds. sand and gravel or crushed rock bedding; 110 cu. yds. coarse gravel; 7,200 cu. yds. gravel lining; 12 cu. yds. concrete; 18 barrels cement; 1,000 lbs. reinforcement bars; 130 lin. ft. 15-inch diameter concrete irrigation pipe; 826 lin. ft. 12-, 15- and 18-inch diameter No. 16 gage, and 638 in. ft. 24-inch diameter No. 14 gage, corrugated-metal pipe; 124 lin. ft. 18-inch diameter No. 16 gage, and 222 lin. ft. 24-inch diameter, No. 14 gage, asbestos bonded, corrugated-metal pipe; and 150 lbs. miscellaneous metalwork. Time allowed for completion will be 220 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P.O. Box 368, Ephrata, Washington.
6230—7-19

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., JULY 29

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, July 29, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the office of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items nos. 1 to 12 inclusive.

The improvements for which the bids will be received follow:

1. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Bituminous Road Mix, Constructing Two Reinforced Concrete Bridges, Fencing and Installing Illumination on 2.145 miles of Primary State Highways Nos. 10 and 16 in Okanogan County, OKANOGAN VICINITY, FAP Nos. F-029-2(16) and F-FG-052-3(1), involving about 206,970 cubic yards of Common Excavation and Borrow, 4,500 tons of Riprap, 27,930 tons of Crushed Surfacing, Ballast and Crushed Cover Stone, 940 cubic yards of Mineral Aggregate, 105 tons of Asphalt Cement, 651 cubic yards of Concrete, 84,820 pounds of Steel Reinforcing Bars, a lump sum bid for Two Superstructures (about 1,218 cubic yards of Concrete and 330,000 pounds of Steel Reinforcing Bars), 1,042 linear feet of Standard Bridge Railing, 14,000 linear feet of Untreated Timber Piling, 2,218 linear feet of Concrete Pipe, 314 linear feet of Metal Pipe, 3,127 linear feet of Beam Guard Rail, 84 Guide Posts, 14,970 linear feet of Wire Fence, 2 lump sum bids for Illumination Systems and other items.
2. Draining, Grading, Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment and Paving with Asphaltic Concrete on 2.436 miles of Primary State Highway No. 1 in Snohomish County, JCT. PSH NO. 1 TO JCT. SSH NO. 2-J, FAP Nos. F-001-4(19) and DF-001-4(18), involving about 31,170 cubic yards of Common Excavation, 540 cubic yards of Top Soil, 17,970 tons of Selected Roadway Borrow, 6,000 tons of Crushed Surfacing, 790 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 141 tons of Asphalt Cement, 13,495 tons of Asphaltic Concrete, 2,710 barrels of Portland Cement, 11,080 tons of Cement Treated Base, 9,170 linear feet of Extruded Traffic Curb, 523 linear feet of Concrete Pipe, 96 Guide Posts, 3 lump sum bids for Illumination Systems and other items.
3. Constructing a Precast Prestressed Concrete Girder Bridge on Primary State Highway No. 1 in Cowlitz County, LONGVIEW WYE UNDERCROSSING, FAP No. 1-5-1(19)37, involving about 280 cubic yards of Common Excavation, 400 cubic yards of Crushed Surfacing, Ballast and Prime Coat Aggregate, 110 tons of Asphaltic Concrete, 90 linear feet of Metal Pipe, 432 linear feet of Standard Bridge Railing, 2,331 linear feet of Prestressed Concrete Girders, 905 cubic yards of Concrete, 192,000 pounds of Steel Reinforcing Bars, 14,800 linear feet of Treated Timber Piling, a lump sum bid for Remodeling Existing Illumination System and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Installing Signing on 20.058 miles of Primary State Highway No. 18 in Grant County, MURPHYS CORNER TO MOSES LAKE—SIGNING, FAP No. 1-90-4(19)148, involving 2 lump sum bids for Signing. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
5. Draining, Grading, Surfacing and Paving with Asphaltic Concrete on 3.206 miles of a King County Road, S.E. 216TH STREET-MAPLE VALLEY TO 276TH AVENUE S.E., FAS No. DS-0908(1), involving about 56,850 cubic yards of Common Excavation, 1,200 cubic yards of Unsuitable Foundation Excavation, 200 tons of Riprap, 26,190 tons of Selected Roadway Borrow, 11,880 tons of Crushed Surfacing, 450 cubic yards of Prime Coat Aggregate, 49 tons of Asphalt Cement, 5,720 tons of Asphaltic Concrete, 100 cubic yards of Concrete, 597 linear feet of Concrete Pipe, 1,272 linear feet of Metal Pipe, 550 linear feet of Beam Guard Rail, 134 Guide Posts and other items.
6. Surfacing and Constructing Bituminous Surface Treatment on 8.099 miles of Ferry County Road, INCHELIUM-FERRY LAKES, FAS Nos. S-1230(1) and DS-1230(2), involving about 27,200 cubic yards of Selected Roadway Borrow, 13,000 cubic yards of Crushed Surfacing and Crushed Cover Stone, 325 tons of Asphalt Cement and other items.
7. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 0.785 mile of a Clallam County Road, LA PUSH ROAD, FAS Nos. S-1240(2) and DS-1240(1), involving about 7 acres of Clearing, 32,000 cubic yards of Unclassified Excavation, 5,900 cubic yards of Selected Roadway Borrow, 405 linear feet of Concrete Pipe, 36 Guide Posts and other items.
8. Surfacing and Constructing Bituminous Surface Treatment on 7.638 miles of Ferry County Roads, KETTLE RIVER TORODA CREEK AND KETTLE FALLS-CHELIUM ROADS, FAS Nos. S-0923(4), S-1143(2) and S-0963(4), involving about 8,080 cubic yards of Crushed Surfacing and Crushed Cover Stone, 258 tons of Asphalt Cement and other items.
9. Surfacing and Paving with Asphaltic Concrete on 3.259 miles of a Pierce County Road, OLD MILITARY ROAD, FAS No. DS-1310(1) and County Project, involving about 785 cubic yards of Crushed Surfacing, 4,830 tons of Asphaltic Concrete and other items.
10. Surfacing and Constructing Bituminous Surface Treatment on 5.236 miles of an Okanogan County Road, TWISP RIVER ROAD No. DS-1149(2), involving about 2,620 cubic yards of Crushed Surfacing, 7,590 tons of Crushed Cover Stone, 111 tons of Asphalt Cement and other items.
11. Constructing a Reinforced Concrete Slab Bridge on 0.020 mile of a Grant County Road, RED ROCK BRIDGE, FAS No. DS-1404(1), involving about 165 cubic yards of Concrete, 28,400 pounds of Steel Reinforcing Bars, 209 linear feet of Concrete Bridge Railing, 1,020 linear feet of Concrete Piling and other items.
12. Grading, Surfacing and Paving with Asphaltic Concrete on 0.135 mile of a Klickitat County Road, MAIN STREET-TOWN OF WHITE SALMON, FAS No. DS-6291(1), involving about 2,100 cubic yards of Unclassified Excavation, 1,350 cubic yards of Crushed Surfacing and Ballast, 615 tons of Asphaltic Concrete and other items.
13. Draining, Grading, Surfacing and Paving with Asphaltic Concrete on 1.625 miles of Primary State Highway No. 1 in King County, ENUMCLAW CITY STREETS, a State Project, involving about 4,230 cubic yards of Common Excavation, 2,820 cubic yards of Selected Roadway Borrow, 890 cubic yards of Crushed Surfacing and Prime Coat Aggregate, 16 tons of Asphalt Cement, 4,435 tons of Asphaltic Concrete, 283 square yards of Asphaltic Concrete Driveway, 5,965 linear feet of Cement Concrete Curb and Gutter, 72 square yards of Cement Concrete Sidewalk, 339 linear feet of Concrete Pipe and other items.
14. Constructing Bituminous Surface Treatment on 22.05 miles of Secondary State Highway No. 10-B in Douglas County, FARMER TO MANSFIELD, a State Project, involving about 285 tons of Asphalt Cement, 2,670 cubic yards of Mineral Aggregate and 20 M gallons of Water.
15. Paving with Asphaltic Concrete, Constructing Curb and Bumper Median, Fencing and Installing Illumination for the Washington State Toll Bridge Authority in Kitsap County, WASHINGTON STATE FERRY SYSTEM - WINSLOW FERRY TERMINAL, a State Project, involving about 122 tons of Asphaltic Concrete, 1,150 square yards of Concrete Curb and Bumper Median, 435 linear feet of Chain Link Fence, 7 Lighting Standards, 11 Luminaires and Ballasts, 1,010 linear feet of Burial Cable and other items.

ERNEST J. KETCHUM, Chairman
W. A. BUGGE, Director of Highways

6227—7-12, 19

until 11:00 a.m., PST, July 23, 1958. This project consists of constructing .971 miles of Beam-type Guardrail at various locations between Miles 11 and 37. The principal item of work is beam-type guardrail—5125 linear feet. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6223—7-12, 19

EARTHWORK, DRAINS

BIDS CLOSE 10 A.M., P.S.T., AUGUST 7

Ephrata, Washington

NOTICE TO CONTRACTORS

UNITED STATES DEPARTMENT OF THE INTERIOR, Bureau of Reclamation, July 8, 1958. Sealed bids, in single, (Specifications No. 117C-515) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division Avenue and C Street N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, August 7, 1958, and then publicly opened for furnishing labor and materials and performing all work for construction of Drains in Block 87. This work will include earthwork for about 8 miles of drains, detention dike and for access ramps, construction of structures along drains including pool drops, baffled pipe outlet, drain inlets, inlet structure, headwalls, concrete pipe chute; road, lateral and ditch crossings, and gravel lining for about 5.3 miles of drains, involving 65,660 cu. yds. excavation; 2,300 cu. yds. backfill, part compacted or puddled; 250 cu. yds. riprap; 150 cu. yds. sand and gravel or crushed rock bedding; 110 cu. yds. coarse gravel; 7,200 cu. yds. gravel lining; 12 cu. yds. concrete; 18 barrels cement; 1,000 lbs. reinforcement bars; 130 lin. ft. 15-inch diameter concrete irrigation pipe; 826 lin. ft. 12-, 15- and 18-inch diameter No. 16 gage, and 638 in. ft. 24-inch diameter No. 14 gage, corrugated-metal pipe; 124 lin. ft. 18-inch diameter No. 16 gage, and 222 lin. ft. 24-inch diameter, No. 14 gage, asbestos bonded, corrugated-metal pipe; and 150 lbs. miscellaneous metalwork. Time allowed for completion will be 220 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P.O. Box 368, Ephrata, Washington.
6230—7-19

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., JULY 29

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, July 29, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the office of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items nos. 1 to 12 inclusive.

The improvements for which the bids will be received follow:

1. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Bituminous Road Mix, Constructing Two Reinforced Concrete Bridges, Fencing and Installing Illumination on 2.145 miles of Primary State Highways Nos. 10 and 16 in Okanogan County, OKANOGAN VICINITY, FAP Nos. F-029-2(16) and F-FG-052-3(1), involving about 206,970 cubic yards of Common Excavation and Borrow, 4,500 tons of Riprap, 27,930 tons of Crushed Surfacing, Ballast and Crushed Cover Stone, 940 cubic yards of Mineral Aggregate, 105 tons of Asphalt Cement, 651 cubic yards of Concrete, 84,820 pounds of Steel Reinforcing Bars, a lump sum bid for Two Superstructures (about 1,-218 cubic yards of Concrete and 330,000 pounds of Steel Reinforcing Bars), 1,042 linear feet of Standard Bridge Railing, 14,000 linear feet of Untreated Timber Piling, 2,218 linear feet of Concrete Pipe, 314 linear feet of Metal Pipe, 3,127 linear feet of Beam Guard Rail, 84 Guide Posts, 14,970 linear feet of Wire Fence, 2 lump sum bids for Illumination Systems and other items.
2. Draining, Grading, Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment and Paving with Asphaltic Concrete on 2.436 miles of Primary State Highway No. 1 in Snohomish County, JCT. PSH NO. 1 TO JCT. SSH NO. 2-J, FAP Nos. F-001-4(19) and DF-001-4(18), involving about 31,170 cubic yards of Common Excavation, 540 cubic yards of Top Soil, 17,970 tons of Selected Roadway Borrow, 6,000 tons of Crushed Surfacing, 790 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 141 tons of Asphalt Cement, 13,495 tons of Asphaltic Concrete, 2,710 barrels of Portland Cement, 11,080 tons of Cement Treated Base, 9,170 linear feet of Extruded Traffic Curb, 523 linear feet of Concrete Pipe, 96 Guide Posts, 3 lump sum bids for Illumination Systems and other items.
3. Constructing a Precast Prestressed Concrete Girder Bridge on Primary State Highway No. 1 in Cowlitz County, LONGVIEW WYE UNDERCROSSING, FAP No. I-5-1(19)37, involving about 280 cubic yards of Common Excavation, 400 cubic yards of Crushed Surfacing, Ballast and Prime Coat Aggregate, 110 tons of Asphaltic Concrete, 90 linear feet of Metal Pipe, 432 linear feet of Standard Bridge Railing, 2,331 linear feet of Prestressed Concrete Girders, 905 cubic yards of Concrete, 192,000 pounds of Steel Reinforcing Bars, 14,800 linear feet of Treated Timber Piling, a lump sum bid for Remodeling Existing Illumination System and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Installing Signing on 20.058 miles of Primary State Highway No. 18 in Grant County, MURPHYS CORNER TO MOSES LAKE—SIGNING, FAP No. 1-90-4(19)148, involving 2 lump sum bids for Signing. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
5. Draining, Grading, Surfacing and Paving with Asphaltic Concrete on 3.206 miles of a King County Road, S.E. 216TH STREET-MAPLE VALLEY TO 276TH AVENUE S.E., FAS No. DS-0908(1), involving about 56,850 cubic yards of Common Excavation, 1,200 cubic yards of Unsuitable Foundation Excavation, 200 tons of Riprap, 26,190 tons of Selected Roadway Borrow, 11,880 tons of Crushed Surfacing, 450 cubic yards of Prime Coat Aggregate, 49 tons of Asphalt Cement, 5,720 tons of Asphaltic Concrete, 100 cubic yards of Concrete, 597 linear feet of Concrete Pipe, 1,272 linear feet of Metal Pipe, 550 linear feet of Beam Guard Rail, 134 Guide Posts and other items.
6. Surfacing and Constructing Bituminous Surface Treatment on 8.099 miles of a Ferry County Road, INCHELIUM-TWIN LAKES, FAS Nos. S-1230(1) and DS-1230(2), involving about 27,300 cubic yards of Selected Roadway Borrow, 13,080 cubic yards of Crushed Surfacing and Crushed Cover Stone, 325 tons of Asphalt Cement and other items.
7. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 0.785 mile of a Clallam County Road, LA PUSH ROAD, FAS Nos. S-1240(2) and DS-1240(1), involving about 7 acres of Clearing, 32,000 cubic yards of Unclassified Excavation, 5,900 cubic yards of Selected Roadway Borrow, 405 linear feet of Concrete Pipe, 36 Guide Posts and other items.
8. Surfacing and Constructing Bituminous Surface Treatment on 7.638 miles of Ferry County Roads, KETTLE RIVER, TORODA CREEK AND KETTLE FALLS-INCHELIUM ROADS, FAS Nos. S-0983(4), S-1143(2) and S-0963(4), involving about 8,080 cubic yards of Crushed Surfacing and Crushed Cover Stone, 258 tons of Asphalt Cement and other items.
9. Surfacing and Paving with Asphaltic Concrete on 3.259 miles of a Pierce County Road, OLD MILITARY ROAD, FAS No. DS-1310(1) and County Project, involving about 785 cubic yards of Crushed Surfacing, 4,830 tons of Asphaltic Concrete and other items.
10. Surfacing and Constructing Bituminous Surface Treatment on 5.236 miles of an Okanogan County Road, TWISP RIVER ROAD No. DS-1149(2), involving about 2,620 cubic yards of Crushed Surfacing, 7,590 tons of Crushed Cover Stone, 151 tons of Asphalt Cement and other items.
11. Constructing a Reinforced Concrete Slab Bridge on 0.020 mile of a Grant County Road, RED ROCK BRIDGE, FAS No. DS-1404(1), involving about 165 cubic yards of Concrete, 28,400 pounds of Steel Reinforcing Bars, 209 linear feet of Concrete Bridge Railing, 1,020 linear feet of Concrete Piling and other items.
12. Grading, Surfacing and Paving with Asphaltic Concrete on 0.135 mile of a Klickitat County Road, MAIN STREET-TOWN OF WHITE SALMON, FAS No. DS-0399(1), involving about 2,100 cubic yards of Unclassified Excavation, 1,350 cubic yards of Crushed Surfacing and Ballast, 610 tons of Asphaltic Concrete and other items.
13. Draining, Grading, Surfacing and Paving with Asphaltic Concrete on 1.035 miles of Primary State Highway No. 5 in King County, ENUMCLAW CITY STREETS, a State Project, involving about 4,230 cubic yards of Common Excavation, 2,820 cubic yards of Selected Roadway Borrow, 890 cubic yards of Crushed Surfacing and Prime Coat Aggregate, 16 tons of Asphalt Cement, 4,430 tons of Asphaltic Concrete, 263 square yards of Asphaltic Concrete Driveway, 5,965 linear feet of Cement Concrete Curb and Gutter, 72 square yards of Cement Concrete Sidewalk, 339 linear feet of Concrete Pipe and other items.
14. Constructing Bituminous Surface Treatment on 22.05 miles of Secondary State Highway No. 10-B in Douglas County, FARMER TO MANSFIELD, a State Project, involving about 285 tons of Asphalt Cement, 2,670 cubic yards of Mineral Aggregate and 20 M gallons of Water.
15. Paving with Asphaltic Concrete, Constructing Curb and Bumper Median, Fencing and Installing Illumination for the Washington State Toll Bridge Authority in Kitsap County, WASHINGTON STATE FERRY SYSTEM - WINSLOW FERRY TERMINAL, a State Project, involving about 122 tons of Asphaltic Concrete, 1,150 square yards of Concrete Curb and Bumper Median, 435 linear feet of Chain Link Fence, 7 Lighting Standards, 11 Luminaires and Ballasts, 1,010 linear feet of Burial Cable and other items.

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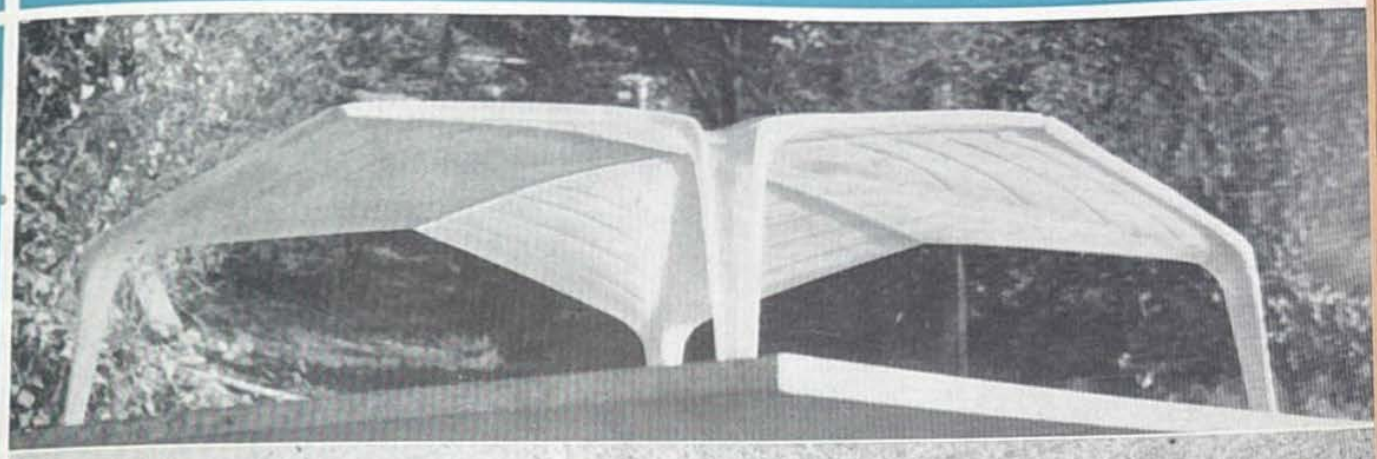

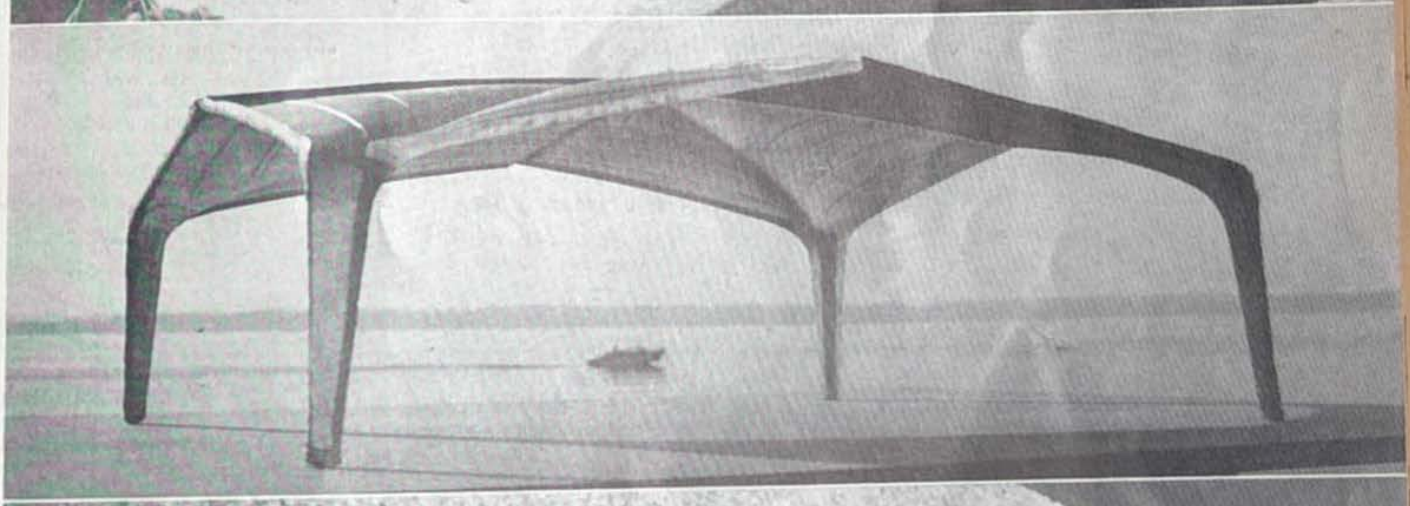

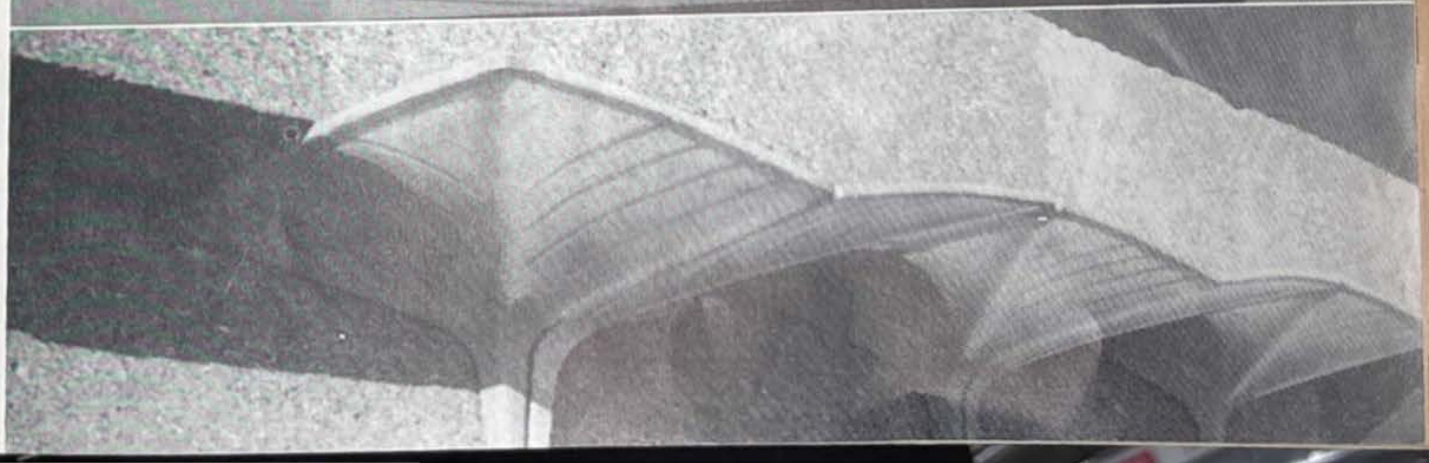

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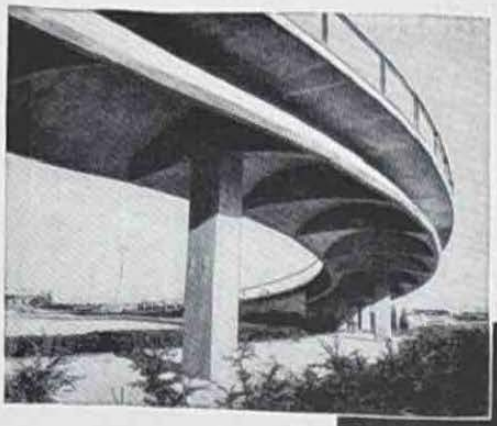

Gateway TO THE STARS

Dramatic Concrete Ramp at New York International Airport Provides Graceful Access to Arrival Building

• "Gateway to the Stars"—at Idlewild Airport—is a curving reinforced concrete promenade which connects with a prestressed concrete bridge leading to the Arrival Building.

Imaginative and daring in design, this strikingly modern ramp, set on widely spaced concrete columns, skirts the edge of the broad circular reflection pool in a graceful sweep.

The bridge which leads through the 11-story control tower, is fabricated of prestressed concrete channel beams made with 'Incor'*, America's FIRST high early strength portland cement, and also utilizes widely spaced columns.

Well-integrated designs, coupled with concreting know-how, make this a quality job of highest order. Artistry in concrete has been achieved, plus an all-important economy that lasts for the life of the structure, making the most of today's construction dollars.

*REG. U.S. PAT. OFF.

NEW YORK INTERNATIONAL AIRPORT
Arrival Building Reflection Pool and Elevated Promenade
Owner: **PORT OF NEW YORK AUTHORITY**

Design
SKIDMORE, OWINGS & MERRILL (Building and Bridge)
Associate: **WALLACE K. HARRISON**
HERBERT FLEISCHER (Pool and Ramp)
All of New York City, N. Y.

Contractor: **TULLY & DI NAPOLI, INC.** (Bridge, Ramp, Pool)
Flushing, New York

Prestressed Bridge Beams
PRECRETE, INC. Flushing, New York
Soil Cement: **FRANK MAMORALE, INC.**
Glen Cove, New York

Masonry:
TEACO CONSTRUCTION CORPORATION (Pool, Ramp)
Bronx, New York

Lone Star Materials supplied by
COLONIAL SAND & STONE CORPORATION
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Both of New York City, N. Y.

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pa&b
Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 8 AUGUST 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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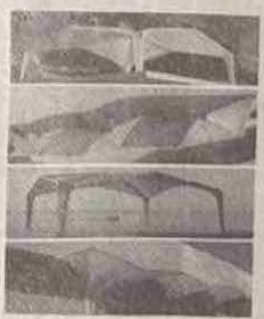
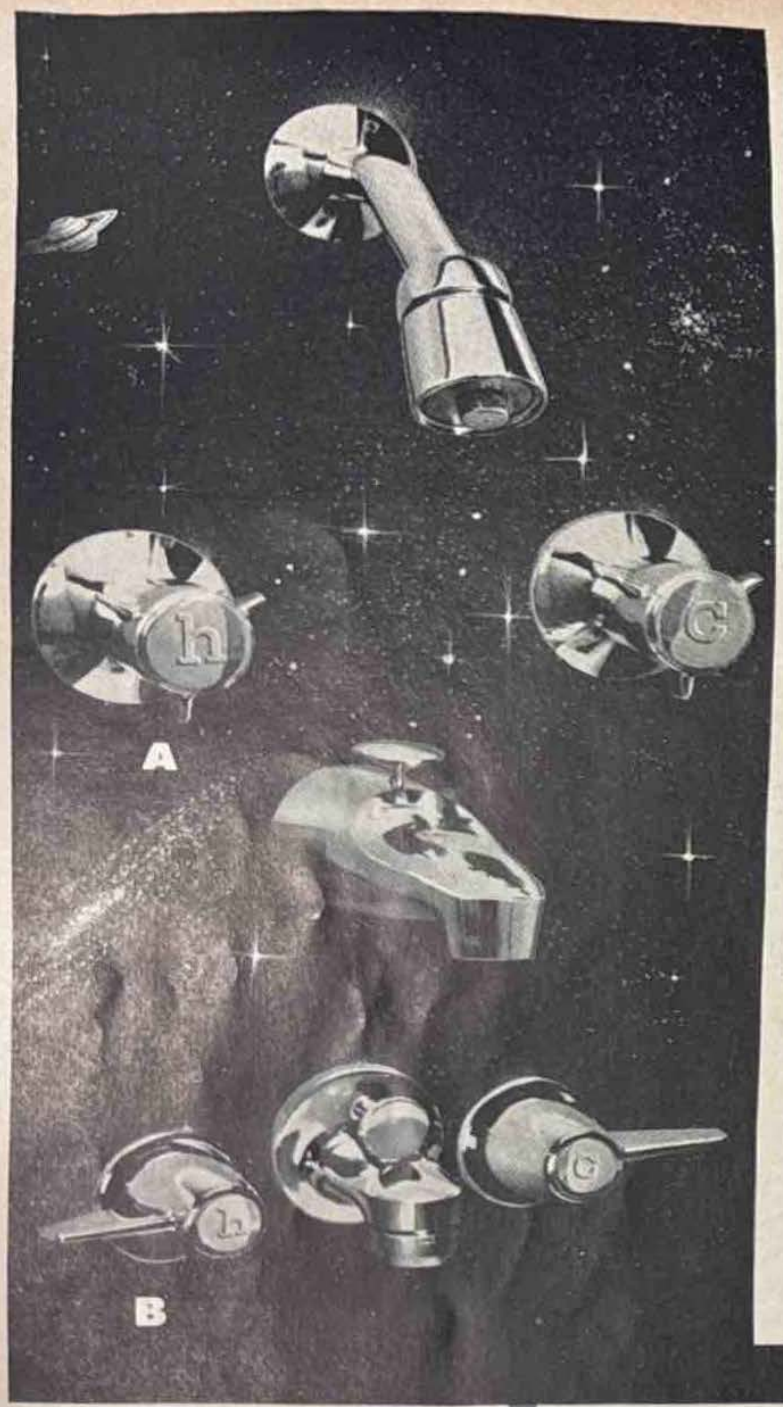


THE COVER

Reinforced plastic shelter system (p. 21) designed by Ted Bower, Architect, who also took the photos.



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Sleek, functional design with color impact

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A T-8116. Combination bath-shower fitting, with automatic diverter valve in spout.

B T-8715-S. Shelf-back lavatory fitting, 5¾" centers, with aerator and pop-up drain.

BRIGGS

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HANKS
Los Angeles

LINDBECK
San Francisco

ROMTVEDT
Portland

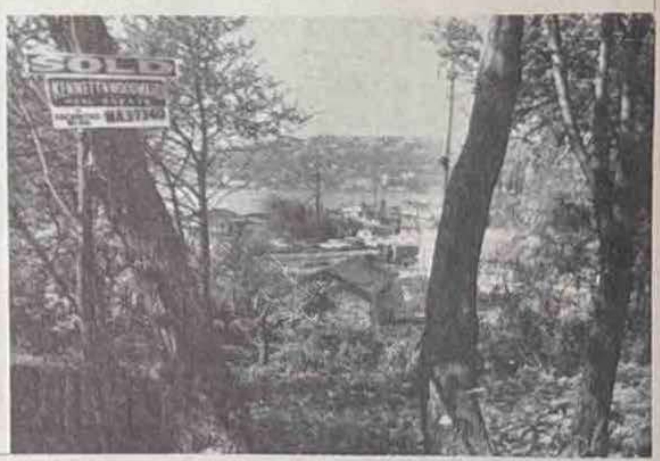
pa&b makes two announcements

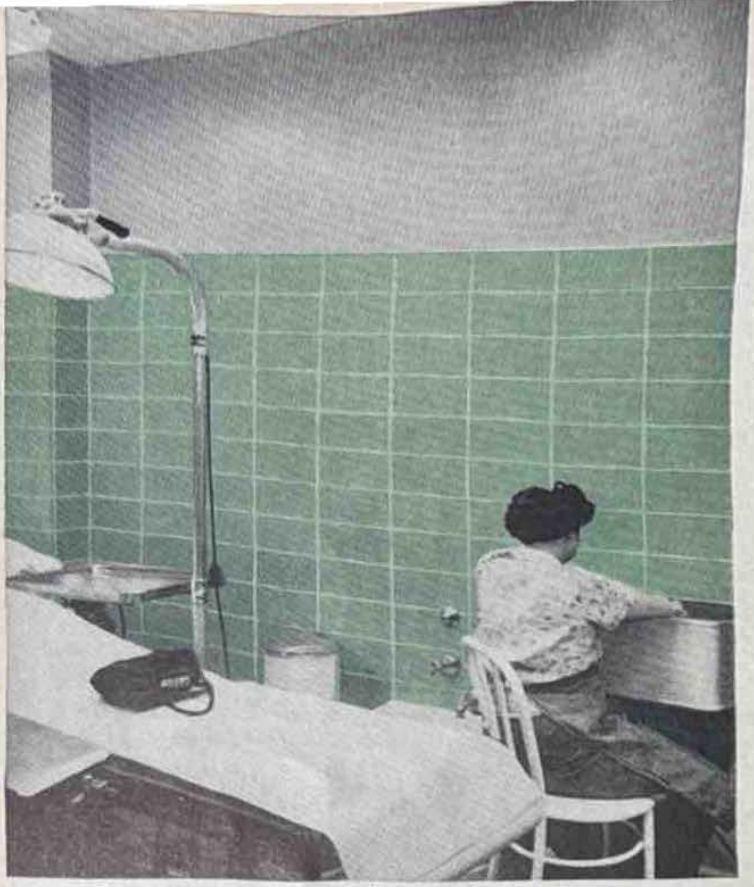
1. A new contributing editor

IN DEVELOPING its role as "The Magazine of West Coast Architecture," Pacific Architect and Builder is pleased to announce the appointment of a contributing editor stationed in Los Angeles. Marvin Hanks joins two others—Ward Lindbeck (replacing Kenneth R. MacDonald) in San Francisco and Win Romtvedt in Portland—, which means that PA&B, with headquarters in Seattle, has editors located in the four largest cities on the West Coast plus correspondents in 21 building centers throughout California, Oregon, Washington, Idaho, Montana and Alaska.

2. A proposed new home

PA&B expects to be editing from offices in a spanking new building within 2½ years, thanks to its publisher, Pacific Builder & Engineer, Inc. A subsidiary firm, Printers Building & Equipment Co., will actually build the structure, just one mile from downtown Seattle with a picturesque waterfront view and blessed by cooling summer breezes off Lake Union. The odd shaped lot, curving around a corner at Yale Avenue North and East Newton Street and dropping rapidly from the front sidewalk, is considered "challenging" by the architect, A. O. Bumgardner, AIA. As architectural advisor to PA&B since February 1957, he already is oriented to the peculiar requirements of a publishing and printing organization. As the design and construction of the building progresses, PA&B will keep its readers informed with reports in the form of a continuing case study.





Ford Motor Company, Milpitas, California
Albert Kahn, Associated Architects & Engineers
Glazed Structural Tile by Kraftile

first aid for ford

What Ford does, Ford does right! Their cheery First Aid Room shown here is only one of many facilities thoughtfully provided in their giant new Milpitas plant. There are first aid rooms, kitchens, cafeterias, shower and locker rooms—all with generous expanses of gleaming, smooth Kraftile glazed structural tile.

In these rooms which do not yield direct profit or production, building and maintenance costs came under extra close scrutiny. Glazed Structural Tile Units are speedily installed as combined wall and finish by only one trade (masonry). A damp cloth cleans it. Glowing, harmonious colors cannot fade. Smooth, marble-hard finish fends off chemicals, acids, grease and steam. Offers no shelter to dirt, vermin, bacteria or rodents. 12 colors plus clear glaze in standardized sizes and shapes. Write for specifications, Graphic Standards and color samples.

KRAFTILE

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LETTERS

Disease of 'negative thinking' strikes profession

Pacific Architect and Builder:

I am becoming rather tired of watching the architectural profession develop into a disease of self-criticism and self-doubt. When we are not able to say something good about what we do and what other architects are developing, perhaps we should say nothing. Architects should know by this time that what man creates is never perfect; however, man always strives toward a continuing degree of perfection.

Have you ever seen the editors of Fortune, The New Yorker or Atlantic Monthly printing a story prefaced like this: "This is not a very good story but here it is anyway."? I believe we are doing exactly that with our architecture today.

Our nation and the world has been stricken with the disease of "negative thinking." Recently there were three books published, all of which have as the basic theme, "What Is Wrong with Architecture." A recent AIA journal picked up the rhythm and published derogatory and deprecatory remarks about Saarinen, LeCorbusier and Wright. In fact, the only thing good it had to say was about the Roman baths at Ostia built during Roman times.

The so-called "secular" journals are likewise voicing criticism of the architectural profession. I mention a few of the things they say about architects. We do not have social responsibility; no sense of the total scope of our work. We are sloppy businessmen lacking in organizational efficiency and business knowhow. We follow rather than lead. We rest on our laurels and take no steps to further better ourselves and our profession. We do not originate, but rather copy what has gone before us.

Over the past several years the architectural profession has embarked on a program of achievement which has not been matched since the beginning of history until now. We are on the threshold of producing an architecture which will equal and surpass that of the Golden Age of Greece, that of Rome and that of the Renaissance.

Architects are administering billions of dollars of the nation's top businesses such as General Motors Corp., IBM Corp., Lever Brothers. I believe this requires top business knowhow, efficiency and foresight on the part of the architect. Architects have spearheaded urban renewal, the development of regional shopping centers and extensive progress in public and private housing. I believe this points out the architect's responsibility to his society and his ability as a leader.

Seminars and workshops have become increasingly more important in the continued training of the architect. He is keeping abreast of the latest materials in the industry. Through this, he renders a better service to his client and his community.

We are making great strides and we realize there is much yet to be done. However, it is not wrong to pat each other on the back and say admirable and advantageous things about each other. This tends to give the other fellow a lift and raises the stature of the entire profession.

I don't think that the architect should be held completely responsible for not achieving all that may be desired. He has been doing everything within his power to bring about the wishes of the world's people. Through continued experience we shall learn to be more mature and we will find greater variety within the framework of our present-day achievements.

FELIX M. CAMPANELLA
Johnston-Campanella
Renton, Wash.

NEWS

Construction boom seen for 49th state

• Military work to hit $250 million annually

"Alaska is giving Americans an emotional and spiritual boost, rekindling the pioneer spirit."—Dr. Ernest Gruening, former territorial governor.

Tremendous increase of military and civil works construction in Alaska was forecast by the Corps of Engineers simultaneously with news that the territory would become the 49th state. Although the two actions are not related, the additional construction activity will be a great shot in the arm for the economy of the new state.

"You are about to become a part in an enormous expansion," Col. P. V. Kiefer Jr., retiring district engineer, told district employees early in July. "I anticipate this district will expand two, three, fourfold. You are coming into a period where the work of the Alaska district may climb to $250 million per year."

Such a figure would help restore Alaska to a position of primary importance as a construction market, a position she enjoyed as recently as the military boom years of 1951-54.

A check of construction dollar volume figures for Alaska compiled by PA&B's companion publication, Pacific Builder & Engineer, during recent years shows a rising and falling trend.

1950		$181,000,000
1951		195,000,000
1952		306,000,000
1953		353,000,000
1954		378,000,000
1955		146,000,000
1956		124,000,000
1957		118,000,000
1958	(Est.)	114,000,000

A reversal of the latest downward trend is apt to develop swiftly if expanded Corps of Engineers work is added to the more slowly developing private construction that is certain to gain impetus in the first few years of Alaska's statehood.

The outlook

The feeling in Alaska is that statehood will open the door to venture capital that will be attracted by tax structures entirely different from the existing ones. Before this venture capital can be made to pay off, however, a good chunk of it will have to go for construction of roads, airstrips, utilities, railroads and buildings.

The machinery by which all of this will be accomplished is by no means certain. There will be extensive changes in the governmental setups for awarding public construction contracts. No one knows what form this will take, or what the timetable may be.

In the past the principal awarding agencies for work in Alaska have been the Bureau of Public Roads, the

FACTS about ALASKA

- If Alaska had been a state in 1954 it would have ranked No. 4 in the nation in construction dollar volume. Last year it would have ranked No. 23.
- There are only 5,000 mi. of roads in all of Alaska's 586,400 sq. mi.
- One-quarter of the population of Alaska (total 235,000) is transient military.
- Construction is the largest single industry in Alaska. Next come fishing ($93 million), lumber, tourism.
- Oil exporation and mining will be fields of most immediate expansion. Alaska is known to have 31 of the 33 most strategic minerals.
- The Corps of Engineers has mapped 91 major potential power sites, and the Bureau of Reclamation has its eye on 12 major damsites.
- Anchorage is the third busiest airport in the U.S., surpassed in landings and takeoffs only by New York and Chicago. Its airfield, built in 1953, is already overtaxed.
- Only 5% of Alaska has been surveyed. The U.S. owns 99% of the land, but 100 million acres will be put up for public acquisition.
- Largest private construction project in Alaska at the moment is the $55 million pulp mill at Sitka where 1,500 men will be working until July 1959.
- As a state, Alaska can boast not only of having the largest area, but the longest shoreline, tallest waterfalls, highest mountain (Mount McKinley, 20,300 ft.), coldest temperatures, biggest glaciers, northernmost city (Point Barrow), easternmost city (Adak). Amidst these stern and imposing natural wonders, construction stiffs will have to hack out new roads, railroads, airstrips, power plants and damsites.
- Anchorage, the largest city in Alaska, has an estimated population of 63,000, not including the transient military populations of Fort Richardson and Elmendorf Air Force Base, the two largest military installations in Alaska.
- With low temperatures of 50 deg. below zero, Glasgow and Great Falls, Mont., have boasted some of the coldest weather in the country. Alaska will now take these honors going away, with many recorded lows of 90 deg. However, the principal cities of Alaska have climates that compare closely with the rest of the Pacific Northwest.

Alaska Public Works Commission, the Corps of Engineers and various army and air force maintenance centers, 17th Naval and Coast Guard districts, the Alaska Railroad, Alaska Department of Lands, Alaska Aeronautics and Communications Commission, Bureau of Reclamation, Alaska Territorial Department of Aviation, the Civil Aeronautics Administration, the Rural Electrification Administration, the Alaska Territorial Department of Education, and the city governments of Anchorage, Fairbanks, Juneau and Ketchikan.

Some of these will be changed to state offices with little ceremony. Some will continue as federal offices.

As PA&B goes to press there are signs of some mighty stirrings in the Northland. Some 600 men are being hired to work on the nation's largest missile detection center to be built at Shemya at a cost in excess of $300 million. The Anchorage City Council has sold its bonds to start major construction early next year on an $8,200,000 municipal port. The Department of Interior has just okayed funds for another $5,299,890 in public projects, and congressmen are promoting a bill to provide $11 million per year for the next six years to build a new highway to Alaska.

And to show how really big they are about all this, Alaskans have officially given Texans the right to go on singing "The Yellow Rose of Texas" which proclaims that Texas is the "largest" state in the Union, even if it isn't so.

CANDID CAMERA IN ANCHORAGE: residence, civic auditorium and elementary school designed by Edwin Crittenden & Associates, one of eight architectural firms in Alaska.

National parley to study home building code

A major attempt toward the development of uniform residential building code requirements for one- and two-family residences will be made in New York City next month. The American Standards Association has called a general conference for September 9 of all national groups that would be substantially concerned with the scope and provisions of such codes.

The meeting is the result of a request which the ASA received on behalf of 14 organizations associated with home building from publisher Henry R. Luce, who declared: "Conflicting and often archaic codes are adding at least $1,000 to the cost of the average new home built this year. This is a figure too dramatic and urgent to be ignored.

"Specific wastes are small compared to what could be saved if conflicting local codes were not blocking economies of nationwide standardization and discouraging the efforts of architects and builders to develop new ways to build better for less," he added.

Luce based his statement on the findings of an industry conference on home building codes last May, which listed common wastes enforced by many local codes that add more than $1,000 to the price of a home. Among them: 1) wiring installations more costly than necessary; 2) over-engineered framing lumber sizes; 3) a ban on trusses; 4) trusses and studs spaced more closely than necessary; 5) needlessly heavy sheathing; 6) needlessly heavy subflooring; 7) vents spaced more closely than necessary; 8) oversized or overweight pipes; 9) useless housetraps on waste lines.

The proposal submitted to the ASA includes the following specific requests:

- That the ASA institute the necessary procedures to develop and approve American Standard code requirements for the construction of one- and two-story residences.
- That, in order to speed development and approval of these requirements, the first stage of this procedure be limited to consolidating in a single American Standard the already almost identical one- and two-family house construction requirements of the Building Officials Conference of America, Southern, International and New York State codes. One exception: from the beginning the new code should permit the framing lumber sizes approved by the most up-to-date stress tables of the National Lumber Manufacturers Association.
- That the ASA make these requirements applicable to three- and four-family residences as well, if that extension proves practicable.
- That the ASA set up the machinery for an annual revision of the proposed code.

The 14 groups on whose behalf the proposal was drawn up are American Council to Improve Our Neighborhoods (ACTION), American Institute of Architects, Building Research Advisory Board, Building Research Institute, Construction and Civic Development Department of the U. S. Chamber of Commerce, Home Manufacturers Association, Lumber Dealers Research Council, Mortgage Bankers Association of America, National Association of Home Builders, National Association of Mutual Savings Banks, National Association of Real Estate Boards, National Retail Lumber Dealers Association, Mortgage Lending Policy Committee of the Life Insurance Association and the United States Savings and Loan League.

Half billion building program proposed for California

A five-year, $500 million building program has been announced at Sacramento by the State of California, with three-fourths of the construction to be devoted to state colleges and the University of California.

State finance officials describe the program, which has been submitted to the joint legislative budget committee, as comprising only the "hard core" of needed construction if California is to keep up with population growth. To accomplish the state's full needs, the finance report indicates, approximately $900 million worth of building would be required by mid-1964. It estimates that California's population will reach 15 million by 1959 and 17,847,000 by mid-1964.

The building program is contingent upon approval by the voters of a proposed $200 million state construction bond issue on the November ballot. It would be up to the legislature to appropriate additional funds as needed on a year-to-year basis.

The program would allocate $214

million to University of California construction; $165 million to state colleges; $50 million to mental hospitals; $58 million to correctional facilities; $15 million to miscellaneous agencies. Of the UC funds, $77 million would go to the Berkeley campus and $16.7 million to the San Francisco Medical Center.

10.3 million predicted in L. A. area by '75

Greater Los Angeles will have a population of 10.3 million by 1975 and is destined to become the No. 1 metropolis of the world. These predictions have been made in a study by a consulting economist, Dr. Robert R. Dockson, professor in the School of Commerce at the University of Southern California.

Just what this will mean to the construction industry, one of the most important segments of the area's economy, is as staggering to the imagination as the projected statistics themselves.

Looking ahead through 1975, Dr. Dockson makes these observations concerning population trends:

- It is expected the Los Angeles area will have a population approximating 7.7 million by 1965, 8.7 million by 1970, 10.3 million by 1975.
- For the most part (about 85%), the population explosion in the metropolitan area has been due to in-migration rather than to an increase in births.
- In-migration is expected to continue in large numbers and many of the in-migrants will be in the child-bearing age bracket between 20 and 35 years.
- Sections in the metropolitan area with the greatest amount of undeveloped land, such as East San Gabriel Valley, North Los Angeles County, West San Fernando Valley and Orange County, will absorb a large part of the new in-migrants.

Regarding the use of automobiles, the study points out that the per capita use is not expected to greatly increase; however, it is estimated that the total number of cars using the streets by 1975 will be around 4.8 million compared to an estimated 2.8 million in 1957, a 71% increase.

In Dr. Dockson's opinion, the Los Angeles area is well on its way to becoming the No. 1 metropolis of the world. Whether this is accomplished in this century he does not say.

For the latest developments on the selection of an architect for Seattle's 1961 "World Fair," see page 35.

THE BUILDING MONTH: BRIEFS

- San Francisco architects have agreed to "go along" with downtown business interests on a proposed limitation of building size in order to get the city's new zoning ordinance adopted. Donald Powers Smith, president of the Northern California Chapter, AIA, told the City Planning Commission his organization still thinks a 16 to 1 ratio to be a "sound, economic solution, but the AIA will not object to a 20 to 1 limit." Downtown groups proposed a rule that a building's total floor area should not exceed 20 times the size of its site.

- Portland's proposed Hilton Hotel probably will be the last new convention type to be built in the U. S. by the hotel chain. Conrad N. Hilton, in the Rose City last month to address a group which is attempting to raise $3 million in local financing for the $10 million, 17-story project, explained that "we have about run out of desirable cities to be in," adding that expansion in this country likely will be confined to smaller inns at airports, such as the one recently launched at San Francisco.

- Los Angeles industrialist Emil Brown, 79, founder and president of Emil Brown & Co., steel products firm, and Dura Steel Products Co., who was once described as "California's great humanitarian," died July 15.

- Largest community ever constructed in the West by a single builder, a $150 million collection of 10,000 homes to be known as Tropicana Village in San Jose, Calif., is now underway by A. L. Branden. When completed within five years, the development will boost the city's population by 35,000 to 40,000. Price range of the homes, designed by Oakland architect David T. Johnson, will be from $11,500 to $14,900.

- First office building for general leasing to be erected in downtown Los Angeles since the end of World War 2 will be built by the city's largest land owner, Tishman Realty and Construction Co., on Wilshire Boulevard between Flower and Lebanon streets.

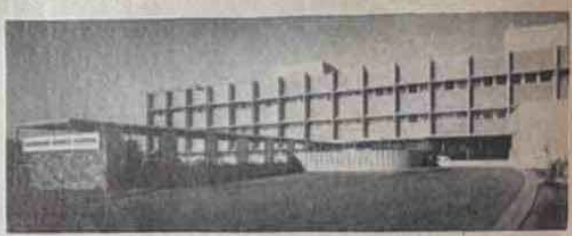
- Oakland, upon receiving a grant of $1,431,606 for its Clinton Park slum clearance project, has become the first city on the West Coast to obtain federal funds for urban renewal work. The 80-block area has been acquired by the city at a cost of $2,142,759 for sewer and street work and building recreation centers, playgrounds and the new Franklin Elementary School. Another $97,000 will go into a recreation center adjoining the school.

- The architectural team of Wurster, Bernardi & Emmons and Skidmore, Owings & Merrill, working with consulting engineers De Leuw, Cather & Co., have completed a $5,000 survey on the feasibility of modernizing San Francisco's Civic Auditorium. The survey indicates it would cost the city $8 million to turn the auditorium into a first-rate convention hall but that this would be "just a good start toward providing the facilities San Francisco needs to continue competing for large conventions."

- Seven review courses in engineering and one in architecture (structural design) will be offered this fall by the University of California at extension centers in San Francisco, Berkeley and Santa Clara.

- Los Angeles Beautiful Committee has given civic recognition to Young's Market Co. metropolitan distribution center, designed by Albert C. Martin & Associates and built by Twaits-Wittenberg Co. The complex of buildings is sited in a formerly blighted area.

- To continue the booming anti-recession housing program of the Federal National Mortgage Association, President Eisenhower late last month released another $150 million, raising to $750 million the amount made available since the program was launched in April.



HOSPITAL OF YEAR

is distinction given Grossmont District Hospital in La Mesa, Calif., designed by Pereira & Luckman, Los Angeles architects-engineers. In making award, Modern Hospital magazine cited solutions for nursing wing and medical core, two basically different problems, planned so that one element would not hamper what was done in other. Project was built for $22.41 per square foot by Trepte Construction Co. of San Diego.

Practicing architect gets nod as Oregon dean

Walter L. Gordon, an architect who has practiced in Portland since 1947, is the new dean of the University of Oregon's School of Architecture and Allied Arts. He has been a visiting professor on the Eugene campus the past year.

GORDON

Gordon succeeds Sidney W. Little who, following his resignation July 1, became dean of the College of Fine Arts at the University of Arizona.

Receiving his bachelor's and master's degrees from Princeton University, the new Oregon dean studied at the University of Paris and at Yale University's Graduate School. He left his post as curator of the San Francisco Museum of Art in 1939 to become assistant director of the Portland Art Museum and joined the office of Pietro Belluschi a year later. He lectured in the history of architecture at Portland's Reed College from 1940-41.

A Phi Beta Kappa, Gordon has held offices in the Oregon Chapter, AIA, and has been a member of the Portland Art Commission since 1955. He was the first to receive an award from the Oregon Chapter of Artists Equity for his crusading for art in architecture (PA&B, Feb. '58).

Architectural department at Arizona this fall

The five-year curriculum for the new department of architecture at the University of Arizona has been outlined by Sidney W. Little, newly appointed dean of the College of Fine Arts.

The first two years of the program, which leads to a bachelor of architecture, will go into effect this fall. The third and fourth years will be available to students in September 1959; the final year in 1960. Courses on problems of architecture in desert regions will be offered.

Dean Little, who comes to Tucson from the University of Oregon, explains that "the new program will include all the accepted courses normally found in architectural curricula, but the emphasis will be on design rather than on technical skills alone. Technology will be considered as a resource for design rather than an end unto itself."

The fifth year, adds the dean, will allow maximum time for advanced study in guided elective courses.

T-SQUARE TALK

new offices

James O. Brummett and Torben Strandgaard have opened an architectural office at Jackson Square, San Francisco.

Stanley Goldin has opened an office for the practice of architecture at 233 W. Seventh St., Long Beach, Calif. A graduate of the University of California, he had been associated with the architectural office of Warren Dedrick.

J. Warren Carkin, Portland architect, will open an office in Salem next month in the Masonic Building, corner of State and High streets. Most recently associated with Edmundson-Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, he received his degree from the University of Oregon.

Robert C. Williams and Jane M. Parug, architects, have become associated for the preparation of construction specifications under the firm name of Robert C. Williams & Associates, with offices at 1091 Keith Ave. and 1628 Walnut St., both in Berkeley.

new addresses

James Mount, architect, to 5729 Cahuenga Blvd., North Hollywood, Calif.

Heitschmidt & Thompson, architects, to 617 W. Seventh St., Los Angeles.

'ARCHIE' MAKES DEBUT

at California State Polytechnic College when student architects present first award for contribution to physical environment to Ben B. Breslow, whose firms make the Gaffers & Sattler line of home appliances. Los Angeles industrialist was honored for development of one of world's first practical evaporative coolers and for research that helped create year-round living centers out of desert communities like Palm Springs, Las Vegas and Phoenix. Breslow (center) is shown receiving "Archie" from George Hasslein, Cal Poly dean of architectural engineering, and Paul R. Neel of San Bernardino, Calif., campus AIA chapter president.

new associates

James H. Van Dyke & Associates, architect-engineers, who are now located in the firm's new building at 3912 Oakwood Ave., Los Angeles, have named the following associates: Paul M. White, Ronald Hendrickson, Colvin B. Childs Jr., Harry Foard, and Coleman Mullin.

appointments

Robert L. Durham, architect, has been appointed chairman of the Cultural Arts Advisory Board for the newly named Century 21 Exposition, scheduled for Seattle in 1961. His 55-member committee includes four architects: James J. Chiarelli, Victor Steinbrueck and Nathan Wilkinson Jr., all of Seattle, and Robert W. Evans of Tacoma. Evans spearheaded the recent formation of Allied Arts of Tacoma, patterned after the Seattle organization.

James H. Langenheim has been named vice president and director of design of Pereira & Luckman, Los Angeles architects-engineers; and Otto H. Kilian also has been elected vice president.

H. Lee Higley, who has been associated since 1945 with Adrian Wilson & Associates, architects-engineers of Los Angeles, has been appointed director of business development. He became chief architect for the firm's Far Eastern offices in Nagoya, Japan, in 1953 and two years later was promoted to project manager there; and in 1956 he assisted in establishing a Manila office, staffed by 150 people.

Robert E. Alexander, architect and former president of the Los Angeles City Planning Commission, has been named by the FHA to serve on a special advisory committee for revision of minimum property requirements for three or more living units. The group will hold six meetings in Washington, D. C., within the next nine months.

campus notes

Partners of the Los Angeles architectural-engineering firm of Daniel, Mann, Johnson & Mendenhall have established a mentorship award for architectural students at the University of Southern California, the first award going to third-year Clifford Wayne Moles. In addition to the payment of his tuition and fees, he will receive training in the DMJM home office as a special employee for eight hours of work per week during the academic year and full time during vacations.

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BUILDING PERMITS

July shows biggest gain of year

Sparked by a record-smashing high for permit valuations in Los Angeles, building in the five western states is not only healthier than it's been all year, but has made a definite recovery. July volume is almost $50 million ahead of the same month in 1957 and actually comes within $12½ million of equaling the entire increase for the first half of 1958.

Last month's whopping $79,751,578 chalked up by Los Angeles tops the previous record set in March 1953 by $14 million. Statewise, California, Washington, Montana and Idaho all show gains over July 1957, while Oregon lags behind by a bare $74,787.

Comparative figures for July and the preceding month reveal the same pattern except that Oregon's drop is more than $5 million. State-by-state tabulations for the first seven months:

	Jan.-July 1958	Jan.-July 1957
Calif.	$1,246,685,342	$1,184,628,088
Ore.	106,416,321	72,388,896
Wash.	177,613,957	161,814,100
Mont.	14,444,086	15,501,512
Idaho	15,302,172	13,765,222
	$1,560,461,878	$1,448,097,915

ANALYSIS OF TYPICAL AREAS — JULY

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	73	$ 996,135	23	$1,802,100	3	$ 560,000
King County	545	5,750,650	31	683,150	8	366,000
Seattle	637	4,839,628	169	2,778,027	5	177,000
Tacoma	126	583,160	7	97,500	2	131,000
Los Angeles County	1648	12,135,363	83	4,450,500	38	3,698,797
Orange County	258	3,269,174	23	210,278	1	75,000
Sacramento County	769	7,456,174	55	4,441,066	6	284,081

Building Permit Totals for 116 Western Agencies for July

CALIFORNIA	July 1958	June 1958	July 1957
Alameda County	$ 1,226,550	$ 2,335,900	$ 1,792,200
Anaheim	3,235,969	2,967,507	1,167,523
Bakersfield	1,458,269	541,880	571,820
Burbank	1,339,978	801,972	829,394
Contra Costa County	3,085,283	2,702,807	2,450,653
Fresno	1,482,302	1,344,689	6,209,446
Fullerton	1,411,073	1,079,759	1,449,180
Glendale	1,959,932	2,126,916	1,030,755
Inglewood	547,023	1,838,357	753,074
Long Beach	19,582,505	3,280,845	3,420,295
Los Angeles	79,751,578	52,433,125	42,148,490
Los Angeles County	21,821,369	17,409,421	20,779,129
Oakland	3,243,483	3,275,755	4,233,857
Ontario	356,612	314,147	581,306
Orange County	4,458,228	3,489,245	5,624,514
Palo Alto	1,503,434	654,533	2,280,437
Pasadena	1,325,864	2,347,096	1,567,083
Pomona	919,322	1,230,843	2,761,165
Richmond	799,653	730,769	418,100
Riverside	1,591,701	1,323,456	646,352
Sacramento	2,615,331	2,430,610	1,848,315
Sacramento County	9,492,859	8,600,962	6,479,712
San Bernardino	2,102,569	1,999,977	1,058,321
San Bernardino County	6,880,542	6,100,131	21,986,737
San Diego	14,110,720	14,322,547	7,443,067
San Diego County	5,561,600	7,196,200	4,992,400
San Francisco	5,062,419	10,758,030	8,838,234
San Jose	7,109,064	6,457,476	5,391,345
San Mateo	1,109,444	550,399	922,080
San Mateo County	2,066,814	2,612,502	1,752,912
Santa Ana	3,701,311	3,784,977	1,458,834
Santa Monica	1,916,585	1,363,721	897,300
Stockton	871,918	1,204,073	1,952,428
Sunnyvale	1,206,851	7,511,490	1,675,125
Torrance	1,864,466	1,169,717	1,819,471
West Covina	811,846	694,588	722,297
TOTAL	$217,584,467	$178,986,422	$169,953,351

OREGON	July 1958	June 1958	July 1957
Albany	$ 214,050	$ 40,600	$ 80,475
Astoria	65,272	8,352	58,518
Baker	79,000	56,390	67,080
Bend	151,200	70,744	482,525
Coos Bay	116,505	87,887	138,850
Corvallis	319,530	2,189,506	343,385
Eugene	636,950	1,531,943	480,383
Grants Pass	115,550	33,200	108,500
Gresham	59,250	38,300	308,781
Hillsboro	70,217	154,025	167,366
Klamath Falls	199,949	194,490	148,325
La Grande	171,960	21,126	41,045
Lane County	829,732	841,013	930,057
Medford	727,488	518,023	218,279
Multnomah County	3,393,446	4,082,610	3,373,328
North Bend	64,226	34,030	48,359
Oregon City	9,680	34,124	16,061
Pendleton	89,346	80,777	139,150
Portland	4,186,225	6,774,665	4,377,650
Roseburg	50,165	104,574	610,331
Salem	734,550	476,646	161,965
Springfield	136,000	76,344	212,430
The Dalles	90,595	160,949	72,800
TOTAL	$ 12,510,886	$ 17,610,318	$ 12,585,643

WASHINGTON	July 1958	June 1958	July 1957
Aberdeen	$ 1,240,497	$ 51,126	$ 92,401
Anacortes	56,139	201,675	36,900
Auburn	54,800	62,400	266,400
Bellingham	159,268	193,652	1,111,801
Bremerton	120,180	209,255	190,245
Centralia	112,837	32,839	73,796
Chehalis	43,796	27,263	17,124
Clarkston	50,998	29,190	151,425
Ellensburg	109,195	47,766	148,977
Ephrata	4,856	18,925	28,679
Everett	467,713	177,397	315,849
Kelso	60,200	121,600	32,550
Kennewick	65,370	60,680	55,300
King County	6,906,385	7,298,470	6,305,840
Kirkland	176	150,100	113,720
Longview	281,539	694,816	427,628
Moses Lake	209,653	129,420	88,743
Olympia	240,741	177,610	122,950
Pasco	204,365	394,670	55,223
Pierce County	2,216,980	1,794,040	1,327,554
Port Angeles	25,100	30,075	37,550
Puyallup	400,475	198,375	89,550
Ritzville	6,500	nil	4,200
Seattle	8,082,459	5,953,462	8,571,645
Shelton	11,450	72,300	197,200
Spokane	1,280,645	1,635,191	2,063,637
Spokane County	1,915,836	1,183,678	1,175,743
Sumner	195,925	22,380	39,650
Tacoma	1,266,099	1,434,214	1,431,742
Vancouver	529,831	419,557	432,972
Walla Walla	231,009	456,018	94,137
Wenatchee	217,498	116,334	413,211
Yakima	402,876	401,878	520,307
TOTAL	$ 27,171,401	$ 23,796,356	$ 26,041,119

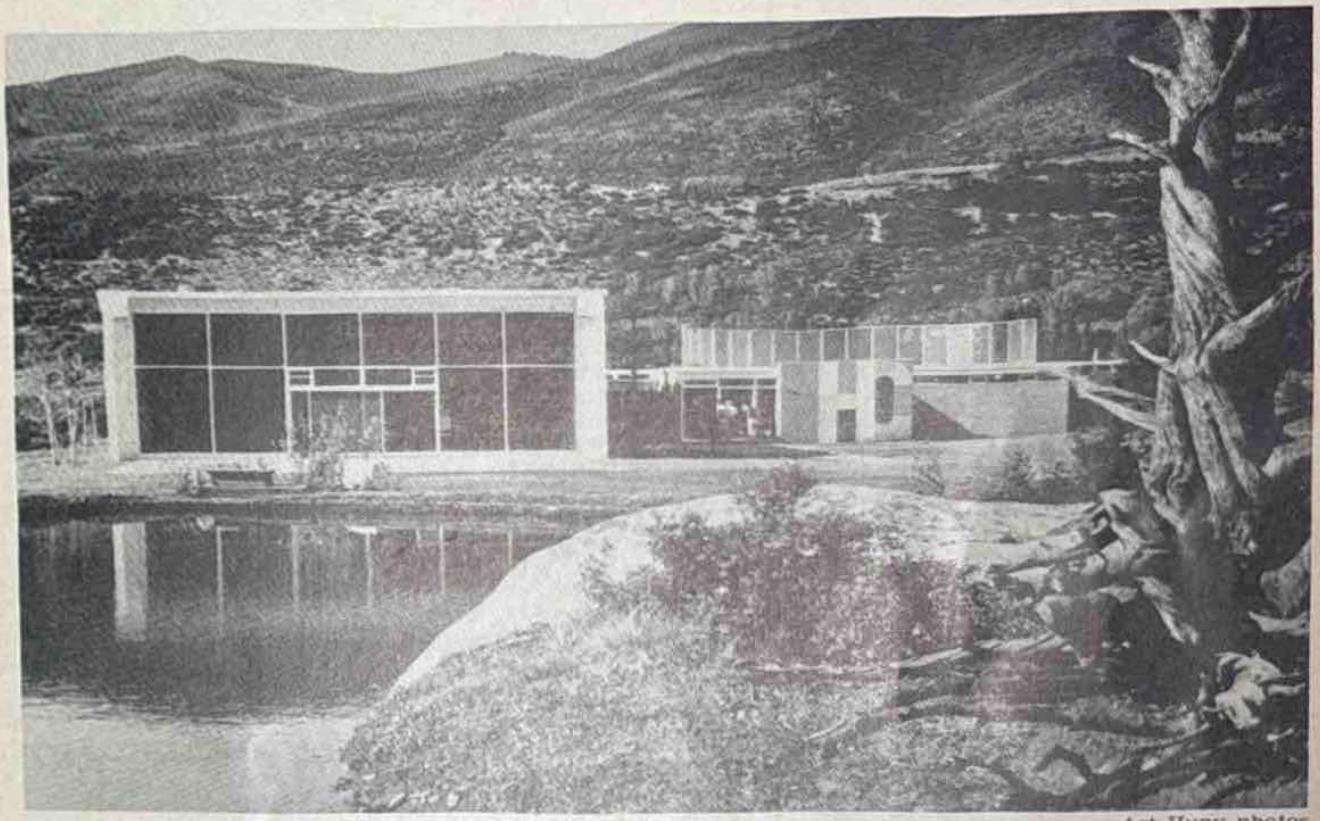
MONTANA	July 1958	June 1958	July 1957
Billings	$ 773,550	$ 168,100	$ 186,700
Bozeman	262,135	39,500	38,900
Butte	305,375	190,490	101,542
Glasgow	4,500	54,250	404,665
Glendive	20,800	138,900	167,700
Great Falls	865,129	654,837	606,231
Helena	282,360	241,015	325,474
Kalispell	144,600	339,400	93,700
Lewistown	24,800	7,800	74,145
Livingston	6,475	105,283	46,775
Miles City	67,565	56,260	23,460
Missoula	77,040	48,050	50,700
TOTAL	$ 2,834,329	$ 2,043,885	$ 2,119,792

IDAHO	July 1958	June 1958	July 1957
Boise	$ 493,806	$ 632,619	$ 466,564
Caldwell	232,325	88,113	35,619
Coeur d'Alene	56,850	32,600	68,350
Idaho Falls	870,955	699,945	475,275
Jerome	5,050	25,200	9,883
Lewiston	347,878	185,225	107,837
Nampa	132,675	119,080	152,590
Payette	70,450	49,100	2,575
Pocatello	257,080	431,368	676,968
Sandpoint	10,575	16,300	41,050
St. Maries	3,000	3,200	1,000
Twin Falls	175,120	208,200	231,550
TOTAL	$ 2,655,764	$ 2,490,950	$ 2,270,854

GRAND TOTAL	$262,756,847	$224,927,931	$212,969,859

pacific architect and builder
AUGUST 1958

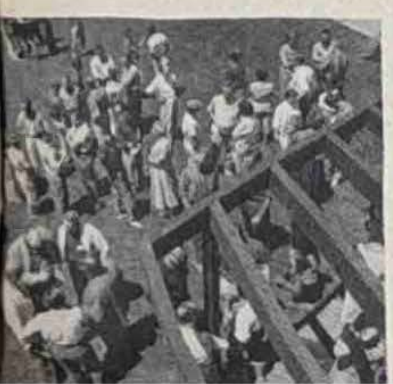
A report on the eighth International Design Conference in Aspen, Colorado



HEALTH CENTER, one of several buildings designed by Herbert Bayer in Aspen.

Art Hupy photos

Design and human problems



THE WEST COAST, which has always been an enthusiastic supporter of the unique Aspen design sessions, played an even greater role in the 1958 conference held in the latter part of June. Garrett Eckbo, landscape architect of San Francisco, was chairman of the program, which included partner Ed Williams, architect Henry Hill of San Francisco, engineer-planner Edgardo Contini of Los Angeles and economist-conservationist Walter Packard of Berkeley. Only woman participant was sculptor Claire Falkenstein, onetime California art teacher and critic, now living and working in Paris and Rome. And for good measure, out of a registration of 245, close to 100 conferees came from the states of Washington and California.

Over the past eight years, the conference has evolved the following method of operation. The entire membership meets in the tent amphitheater in the Aspen Meadows to hear a round table discussion among the panelists of one of three individual cycles (based on papers which have been circulated earlier). Because of the size of the audience and the complexity of the subject matter, there is no discussion from the floor at these sessions. Later, three seminars are held simultaneously, with the panelists rotating through each so that conferees have ample opportunity to question them at length during the course of a morning or an afternoon. Excerpts below are taken from papers and/or notes prepared by some of the panelists.

DESIGN AND HUMAN PROBLEMS

How Does Our World Look Today?—Keynoter Dr. E. A. Gutkind, Institute for Urban Studies, University of Pennsylvania, Philadelphia.

First reaction to the subject is "who looks at our world today and from where?"

Is it the man in the street or the architect and city planner or a scientist or one of the innumerable experts on something who have reached a high standard of mediocrity and yet are admired as our so-called leaders? To anticipate the answer: how does our world look today to any one of these fractional men is of secondary importance. What matters is how full man reacts to the tremendous challenge of our natural and man-made environment.

And the answer to the second question is: we should look at the world from a detached standpoint and, at the same time, remain engaged; in other words we should look at the world simultaneously through the microscope and the telescope.

If we want to understand the problems which are involved in looking at our world today, the approach has to be seemingly abstract. But let me make it quite clear from the beginning that the so-called abstract approach is the truest and the only reality, although this may not be to the liking of the hard-boiled pragmatists who always miss the bus and are always too late; when they have finished their task, or rather when they believe they have finished it, what they have done then is already out of date.

* * *

We live in cities, towns and villages but we do not live within densely knit communities. Our cities and towns are not creative communities. They are conglomerations of human beings and showpieces of technical achievements—but they are not communities in a social sense.

The result is a side by side of individual entities but not an integrated whole. This explains why our environment is confused, confusing and uncreative and why artists and architects and designers work in watertight compartments.

In the tempestuous development of the Insurgent Centuries, the social foundations have been neglected in favor of practical and, above all, technical aspirations and achievements.

It is still the analytical spirit that has formed our urban and rural, our personal and functional environment and which keeps the individual arts apart. This same analytical spirit is evident in the relationship of the arts; again a side by side, no oneness as, for instance, in Egyptian temples and Gothic cathedrals. You may ask: is this necessary and should we look to the past for guidance? It is essential —and moreover art for art's sake is an anomaly. There is only total art, or no art at all, for ART is the interpretation of the sum total of all cultural trends of an epoch through the visual language of form.

* * *

The new feeling of space which has not yet been condensed into a clearly definable idea of space is everywhere at work. The enormous sculpture by Naum Gabo at Rotterdam; every painting by Picasso; a few of our best buildings—they all have in common: a widening out, a new awareness of spatial relation; an urge to emerge from a stale isolation.

The designer of furniture follows the same direction when he designs light, movable and colorful chairs, tables and lamps and adapts their form to the needs of efficient and multiple use not fixed to one place only.

The city planner begins to break down the rigid limitations of the

Continued on page 32

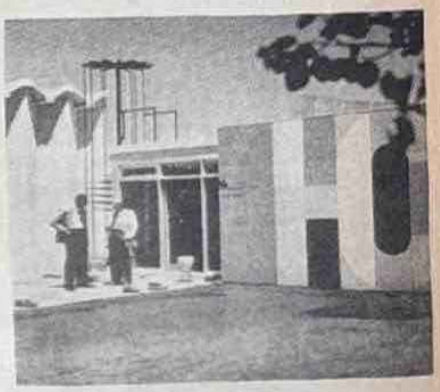
Photos from top to bottom

1. Keynoter Gutkind. 2. Program chairman Eckbo and architect Henry Hill. 3. Economist-conservationist Packard and landscape architect Williams. 4. Sculptor Falkenstein. 5. Illustrator Ted Rand who, as Northwest representative, has done much to stimulate interest in sessions on entire coast.

Historic Aspen . . .

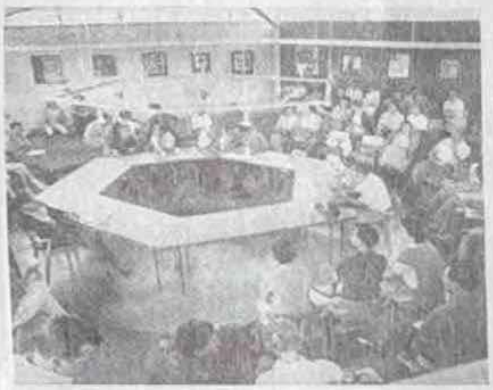
cultural and recreational center of Colorado's western slope

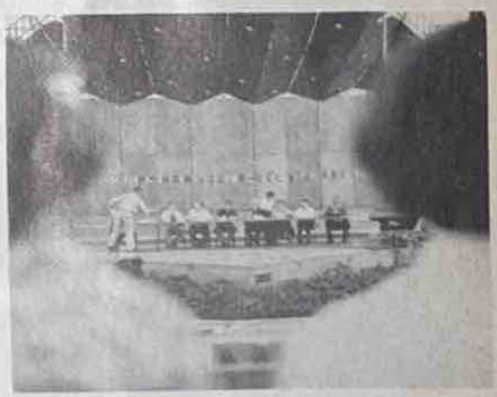
Photos by Art Hupy



at work . . .

"How does our world look today? The mere fact that we are here together and discuss the interaction of the manifold individual factors which make up and act on our environment is hopeful. We are not the only ones who do this. All over the world the spirit of synthesis is gaining momentum and everywhere men are longing for closer and more intimate relationships; for a clearer and more fertile use of the environmental forces; and for a new pattern of living."—Keynoter Gutkind.



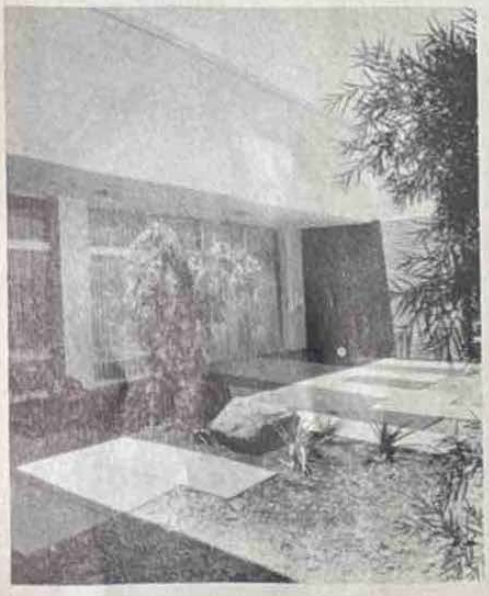


and at play

Preston E. Mitchell

ROOF OVERHANGS are designed for sun control, yet retain desired open atmosphere and maximum exterior lighting for laboratories.

WINDOW WALLS of office wing are lift-in type with lower portion of porcelain enamel panels.



Chemical Research Laboratory
U. S. Borax and Chemical Corp.
Los Angeles, California

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ALBERT C. MARTIN & ASSOCIATES
Architects

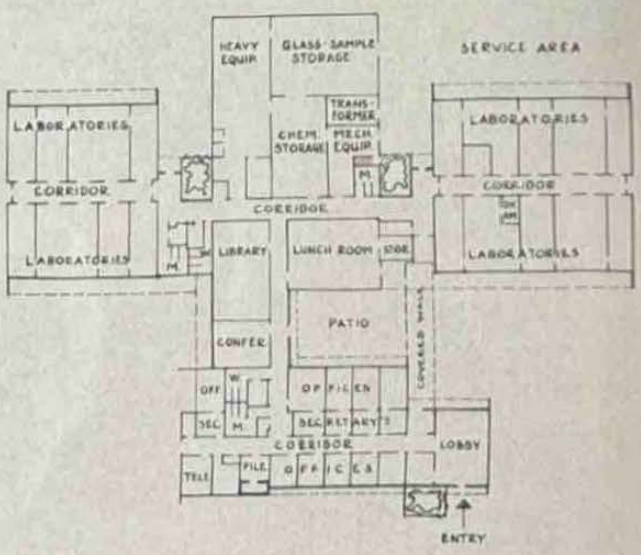
ROBERT HERRICK CARTER
Landscape Architect

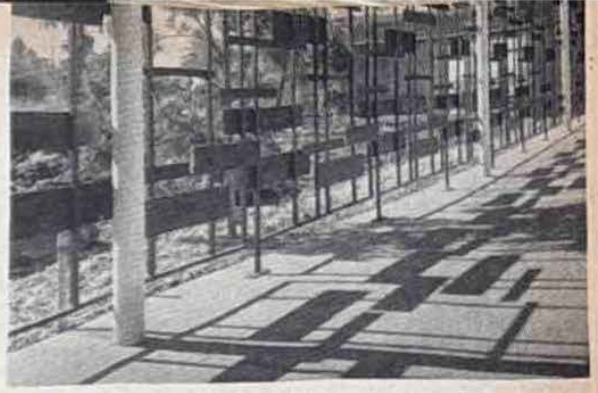
HAAS-HAYNIE-FRANDSEN, INC.
General Contractors

For science: plant with pleasant plusses

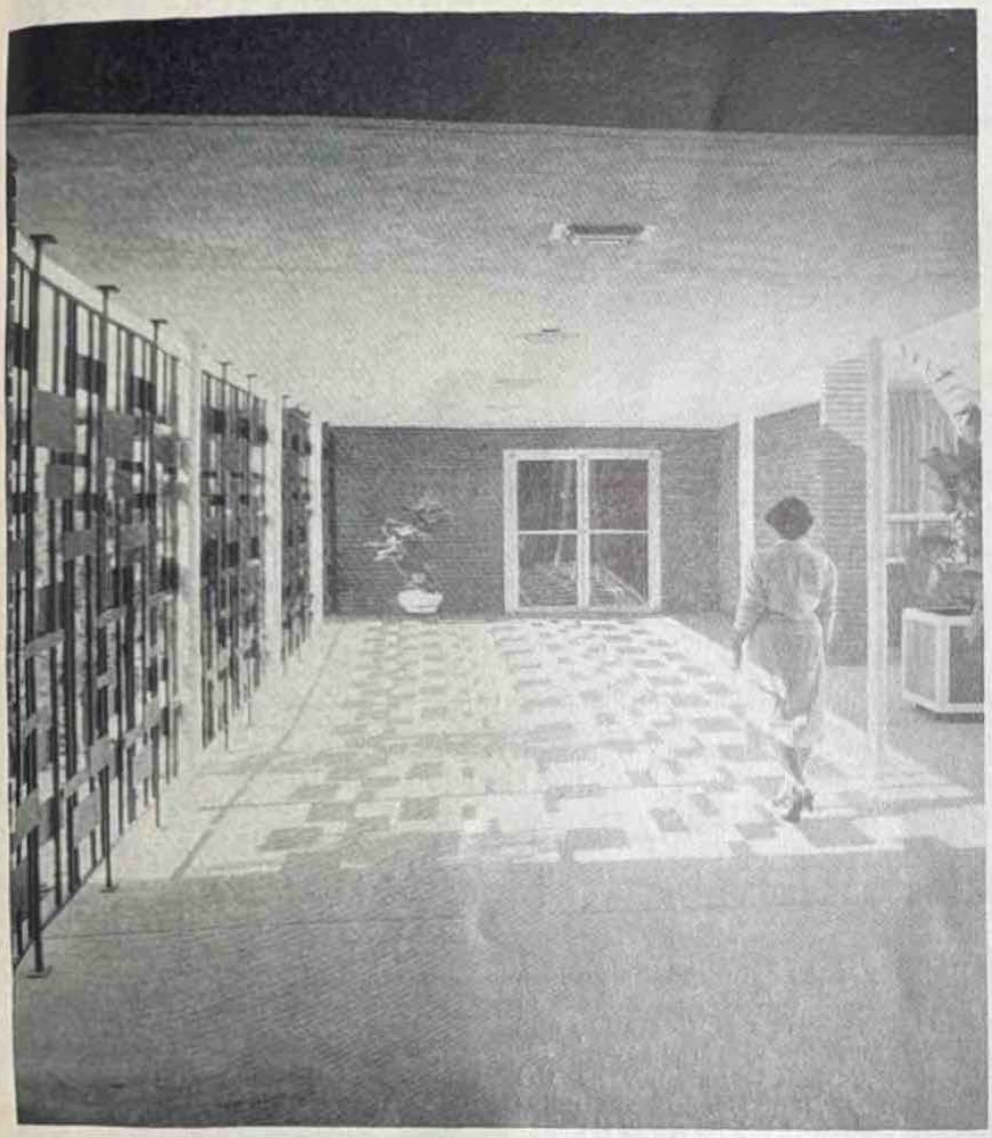
MOST IMPORTANT specific requirement set forth by the client was the need for a building which would house all the varied activities related to a research program, but that would allow for future expansion. This criterion was met by dividing the structure into four semi-separate segments, built around a court which is highlighted by an interesting screen treatment. Each unit accommodates a particular function: storage and utilities in the center; laboratory wings on either side; and a connecting administration wing.

General design objectives: to use materials appropriate to the natural surroundings—five acres of a well-kept orange grove located in what might be termed a rural area; to produce an atmosphere with human scale and warmth; to secure maximum use of space for functional efficiency; to attract and retain high-level personnel with comfortable physical facilities.





METAL SCREEN that borders walkway aids plant safety precautions, screens patio from public access and provides visual break and aesthetic depth to central core of structure. Random size and shaped black panels are welded to rounded stringers in pattern which personifies theme of scientific accuracy in architecturally abstract form.



Jack Laxer photos except as noted

OUTLINE SPECIFICATIONS

Structure: frame, walls, floors: reinforced concrete; roof: steel decking.

Exterior Finish: exposed concrete; face brick; lift-in type window walls with lower portions of porcelain enamel panels.

Doors: exterior: hollow metal; interior: rolling steel.

Floor Surfacing: ceramic tile; vinyl tile; carpeting.

Partitions: metal studs and plaster.

Interior Finish: plaster; walnut paneling.

Ceilings: plaster; acoustical tile.

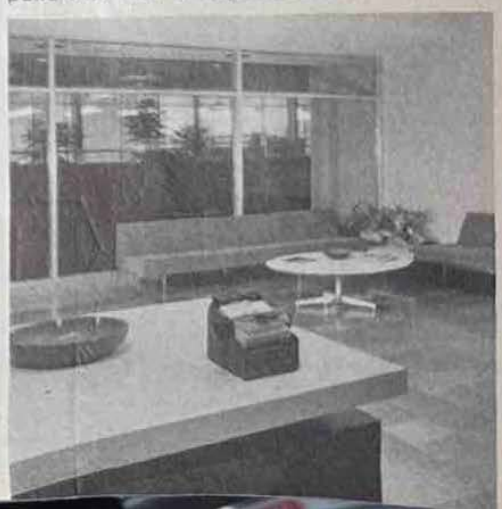
Special Equipment: aluminum sunshades; welded metal patio screen.

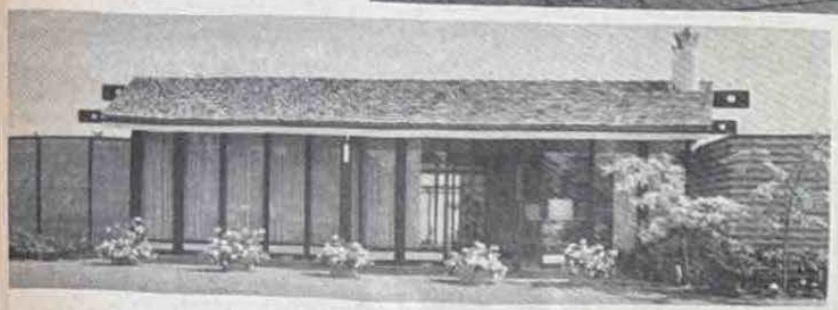
Total Area: 29,700 sq. ft.

Total Cost: $809,678.

Date of Completion: October 1957.

VISITORS' LOBBY and conference room open through draped glass wall onto private paved patio with view of adjacent citrus orchard.





ENTRY WALL is series of wood framed glass pivot doors, repeated in gallery wall which opens onto patio and joins three units of house. Double carport provides access to heating plant and storage room.

Model Home, Bellevue, Washington

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MITHUN, RIDENOUR & COCHRAN, Architects

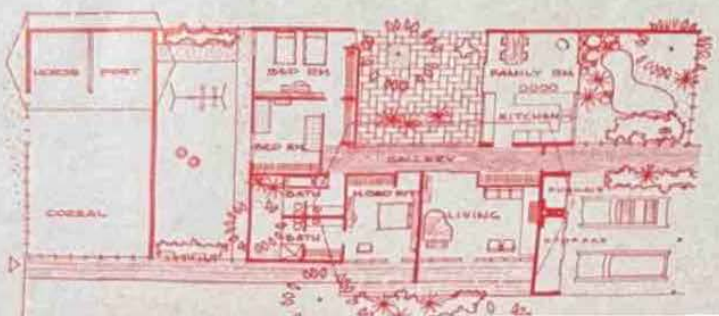
ELDON PERRINE, Landscape Architect

HOME BUILDERS ASSOCIATION
of GREATER BELLEVUE, Contractor

Designed for exhibition--and worth showing

THE MAJORITY of model homes shown up and down the coast leave much to be desired, both from an architectural and a construction standpoint, but here's a refreshing exception. This 1957 version was built in three units—living room and master bedroom, kitchen-dining area, bedroom wing—for exhibition at an East Side community across Lake Washington from Seattle and later moved to a wooded country site.

Because of the nature of the project, easy circulation of large numbers of people was a prime consideration and the architects incorporated several interesting design techniques, as the photographs indicate. Most noteworthy aspect of the house is its spatial relationships achieved principally through the integration of gardens with the interior. The court to the street side is enclosed by an obscure glass fence which gives complete privacy to the kitchen-family unit. This is primarily a planting area to provide a pleasant but intimate outlook. The central garden, with more hard surfacing and less planting, is intended for more actual use—sun bathing, dining, etc.—and is an extension of the kitchen-family, living and bedroom areas. It offers both sun and shade, along with wind protection. The third enclosed patio is purely a space extension of the two bathrooms.



OUTLINE SPECIFICATIONS

Structure: foundation: concrete footings and concrete block walls; frame: wood, post and beam; roof, walls, floors: wood.

Exterior Finish: 1x4 bevel siding with 1x2 batts laid vertically; stain—(PAR) Protection Products Mfg. Co.; paint—Cowman-Campbell Paint Co.

Roof Surfacing: resawn cedar shakes.

Windows: aluminum Z-bar ventilators—Bilt-Rite Aluminum Co.

Doors: center-hinged, job-built; sliding aluminum—Arcadia Metal Products.

Hardware: lock sets (Lok-Set) Screw Machine Products; bath accessories, fans, chimes, food center — Nu-Tone, Inc.

Floor Surfacing: cork tile—Armstrong Cork Co.; ceramic tile—(Hermosa) Gladding, McBean & Co., (Ceratile) Pacific Tile & Porcelain Co., Pomona Tile Co.

Insulation: 4-in. batts.

Partitions: lath and plaster.

Interior Finish: cedar siding; walnut paneling—United States Plywood Corp.; stain (PAR) Protection Products Mfg. Co.; paint—Cowman-Campbell Paint Co.

Ceilings: plaster; acoustical plaster on high portions and soffits—Zonolite Co.

Heating: forced warm air furnace—General Electric Co.; electric panels in baths — Electro-Ray Manufacturing Co.

Lighting Fixtures: incandescent—Litecraft Mfg. Co., Lightolier, Inc., Prescolite Manufacturing Co., A. W. Pistol, Inc.

Electrical Distribution: 24-circuit center—(Pushmatic Electri-Center) Bulldog Electric Products Co.; low voltage system—Bryant Electric Co.; light controls—Superior Electric Co.

Plumbing and Sanitary: water closets, lavatories—Briggs Mfg. Co.; shower control—(Hydroguard) Powers Regulator Co.

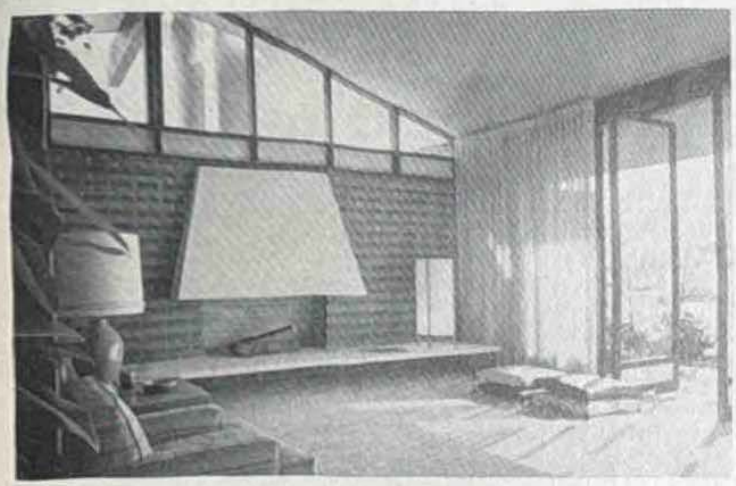
Special Equipment: built-in electrical appliances—Westinghouse Electric Co.; shoji screens—Carlton Products; front entrance sandwich panel—Architectural Plastics Corp.; cork bulletin board (Goldseal) Congoleum Nairn, Inc.; skylights—Filon Plastics Corp.; fireplace stack and hood—Condon King Co.

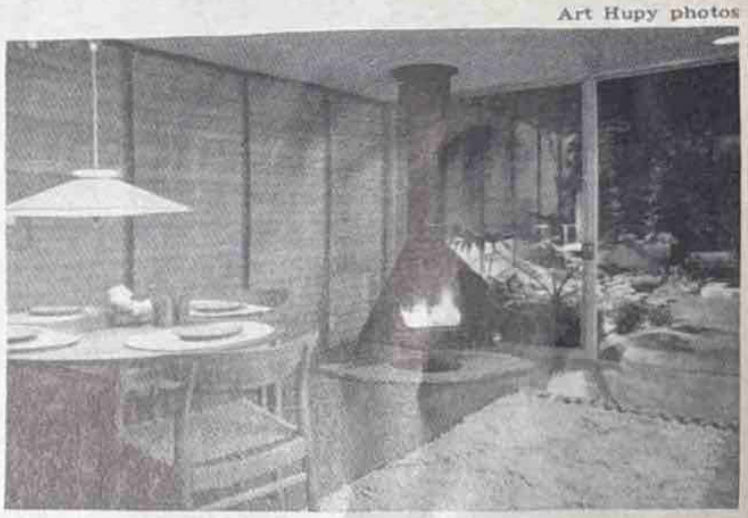
Total Area: 2,000 sq. ft. (heated space).

Date of Completion: August 1957.

FIREPLACE WALL consists of colonial face brick in dark and light tones, used alternately in running course to produce shadowed effect. Dining area looks out on intimate garden. Floating cabinets give kitchen floor-level illumination. Upper cupboards are lighted, have sliding glass doors.

Art Hupy photos





Palo Alto Main Library
Palo Alto, California

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EDWARD D. STONE
Architect

PREGNOFF & MATHEU
Structural Engineers

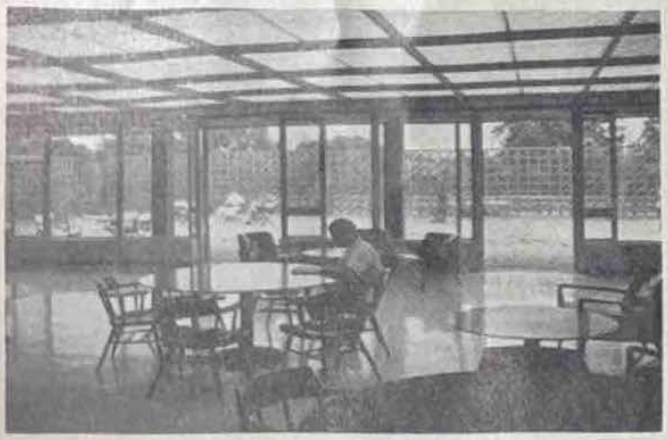
ECKBO, ROYSTON & WILLIAMS
Landscape Architects

HUB PACIFIC BUILDING CO.
General Contractor

Photos courtesy of Bethlehem Pacific Coast Steel Corp.

Library without institutional inhibitions

ONLY INTERIOR COLUMNS support arches forming gable over main reading room. Troughs running along both sides provide indirect lighting. Diffuser panels in other areas also serve as sound baffles. North side of reading room opens on to informal patio, screened by pierced terra cotta grill.



THE PROGRAM called for the integration of this library, a one-story structure covering 29,700 sq. ft. and seating 160, with the design of the new, adjacent city hall in Palo Alto's redeveloped Civic Center. A structural steel skeleton serves the dual purpose of permitting floor-to-ceiling glass walls along the entire perimeter and of carrying the load of the domestic shake roof which matches that of its neighbor. The open plan allows maximum flexibility and escape from the summer heat; in the fall and winter visitors can enjoy the warmth of an open fireplace.

Only interior columns in the building support the arches which form the gable over the main reading room. First rise of the hipped roof is pitched low, permitting an overhang up to 11 ft. to shade terraced areas. Toward the center line, the roof rises steeply. Glazed, glass dormers at the south and north ends of the gable allow filtration of natural light.

An indirect lighting and planter overhang at 9 ft.—same height as the ceiling of the wing and entryway—produces a well around the perimeter of the triangular room, which is further lighted by chandeliers hung from the apex. Ceiling in the wing, which accommodates a lounge, offices and workroom, is covered with double plastic light diffuser panels, providing an air space of nearly 2 ft. and serving as a sound baffle over those areas which bear more traffic than the rest of the library. Resawn redwood is used as a contrasting material over the entrance lobby and service desk. A basement houses closed stacks and general storage.

The light diffuser panels repeat the pattern of pierced terra cotta grill which surrounds the redwood building as a patio screen on all sides and softens the sunlight. Developed by the architect, the tile consists of 11½x11½x 6-in. blocks of intersecting open curves, installed between 6-in. wide flange steel sections and imbedded in a concrete grade beam. Tile is grouted into the opening between the flanges and a 6-in. steel channel running along the top of the wall gives lateral or shear strength.

Human use of synthetic materials

by TED BOWER

The use of synthetics need not separate us more from nature, says this architect; rather it places the responsibility and the choice in our relationship to nature more completely with us

ARCHITECTS sometimes say there has been in the last 50 years a revolution in the field of building design and construction. Some have said the revolution is now over—but the architect or builder who studies the possibilities and potentials of our technology will come, I believe, to a different conclusion: the revolution has scarcely begun.

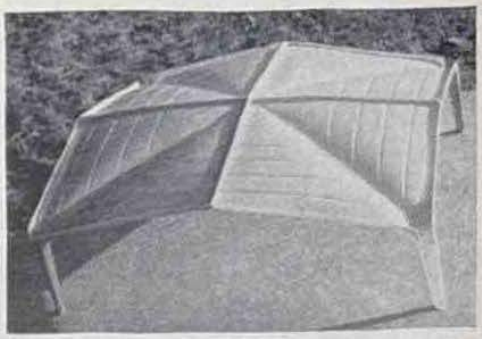
Synthetic materials are one of the significant indications of changes in building construction. Consider for a moment the history of building construction materials. Throughout the period of human civilization until about 100 years ago, building materials were largely natural, used as found in nature. There were exceptions, notably ceramics, which occasionally at different times in different cultures were brought to levels of high technical and artistic development. Then during the past 100 years building technology moved into another phase: transmuted natural materials, which had been known previously but had been too expensive for common use in construction, became available in large supplies of reliable quality. The "revolution" of the past 50 years was made possible to a large degree by the coming of modern steel, modern glass, modern reinforced concrete and modern laminated wood.

As the pace of progress accelerates, it seems we now enter still another era of construction materials—the **chemical-mechanical era,** it might be called. There is a revolutionary difference in this new area: **we can now design the very materials we use.** We are not limited to natural nor to transmuted natural materials; now we are beginning, through science, to start with the very elements and combine them by complex processes to produce synthetic materials entirely unknown before. It is already possible with many types of synthetics to specify the qualities, the performance desired and then have the material synthesized to order. This seems to be notably true in the fields of alloys, ceramics and plastics, all of which are in a sense synthetics. This capacity to create materials is sure to increase and its effect on architecture and on human life is just as sure to be revolutionary.

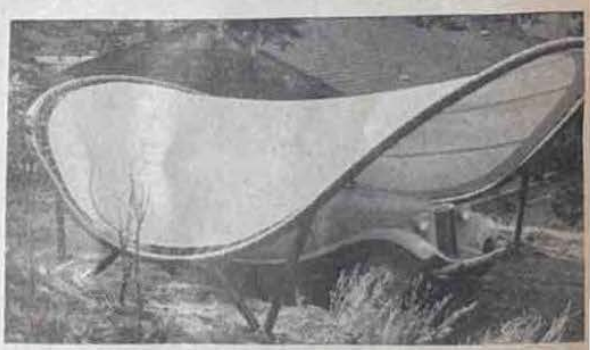
At present, plastics, of all new materials, seem to have the greatest potential application in building construction. A large variety of plastics bring to architecture many qualities entirely new, such as reinforced plastic structures that are strong, durable, light weight, translucently colorful and easily fabricated in complex shapes. Another new quality comes to architecture with the plastic membrane, as clear, colored, or opaque films and coated fabrics or laminated combinations make possible (among other things) inflated structures supported by slightly increased interior air pressure. Many uses of plastics are less dramatic. Often they replace another material for a familiar purpose because of superior quality. There are sprayed plastic coatings that replace paint, plastic components in hardware that replace metals or rubber, plastic flooring materials, laminates for cabinetwork, waterproofing membranes, etc. The list is long.

The growth of the use of plastics will bring eventually a **plastics civilization, a civilization of synthetics** in which most of the materials we use, for whatever purpose, will be the synthetic product of our chemical industry.

- Our clothing from head to foot will be synthetic.
- Our vehicles, whether wheel-less automobiles or helicopters, or some-



REINFORCED PLASTIC SHELTER SYSTEM (also on cover): 20x20x9 ft.; model: one-eighth scale. Square in plan, system is extendable to cover any flat area. Proposed uses: open and patio shelters, covered walkways, carports, marinas.



CARPORT: consists of steel pipe frame within which is stretched vinyl coated glass cloth fabric. Designed to carry 25-psf. load, it achieves considerable stability because of double-curved shape. Alternative: flexible strips of reinforced polyester could be joined with heavy duty zippers to form more durable version.

UMBRELLA ASSEMBLY: 16x16x8½ ft. Tested with uniform load of 40 psf., average deflection of tension plates (midpoint of each edge)—1¾ in.; rise of outer corners—¼ in. With load increased to 52 pfs., excessive deflection increased and deformation occurred, caused by inadequate but easily correctable design of joints and fastenings between panels.

The writer, who designed the structures shown here, is an instructor in the College of Architecture and Urban Planning at the University of Washington.

thing else, will be largely synthetic.

• The very buildings we inhabit and all their furnishings will be largely plastics or synthetics, and all this within our lifetimes—all this before 2000 A.D.!

There are many good reasons for these changes and one has already been mentioned: plastics are materials that can be designed specifically for each use. Such materials will tend to be superior to other materials which have merely been **appropriated for** or **adapted to** a use. The use-designed material, having only and exactly the qualities specified, will eventually be cheaper both to purchase and to work with.

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It seems inevitable that the synthetic civilization of the future will be light weight, if we stop to consider the quality of **heaviness.** As it becomes possible to specify qualities of materials, how often is heaviness going to be specified? Who wants heaviness for its own sake? The engineer designing a drawbridge counterweight; the naval architect who puts lead in the keel of a sailboat; the civil engineer designing a gravity dam.

The uses of heaviness are comparatively few. Architects exploit the heaviness of some natural materials to counterbalance dramatic cantilevered structures of lighter materials, but this may be a passing technique of building design. In most fields where materials of any sort are used, from aeronautics to architecture to clothing manufacture (and even including perhaps food production!) it is desirable to reduce weight.

In architecture in conventional structures today we use many heavy materials which may be obsolete sooner than we suspect. Ordinary concrete can today be reduced in weight by one-third to one-half and in the near future even more.

In buildings the advantages of lightness vs. heaviness are many. Transportation, handling and storage costs of materials are less. Prefabrication becomes much more practical with lightweight materials, and prefabrication promises the economies of shop mass-production. The **thickness** of walls, roofs and floors will reduced. Fewer main supports for a building are necessary and consequently we shall have smaller and simpler foundation structures.

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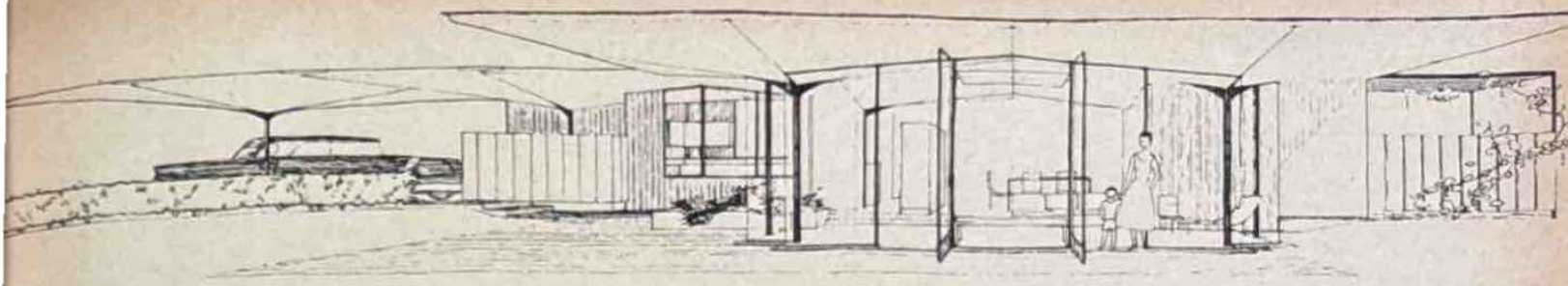

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"So, in a sense, the rough 'hand-molded' concrete of Corbusier and the ornamented 'tool-shaped' concrete sculpture of Wright are prophetic, even though the materials and methods used are crude compared to the synthetic materials and mechanical methods of a chemical era.

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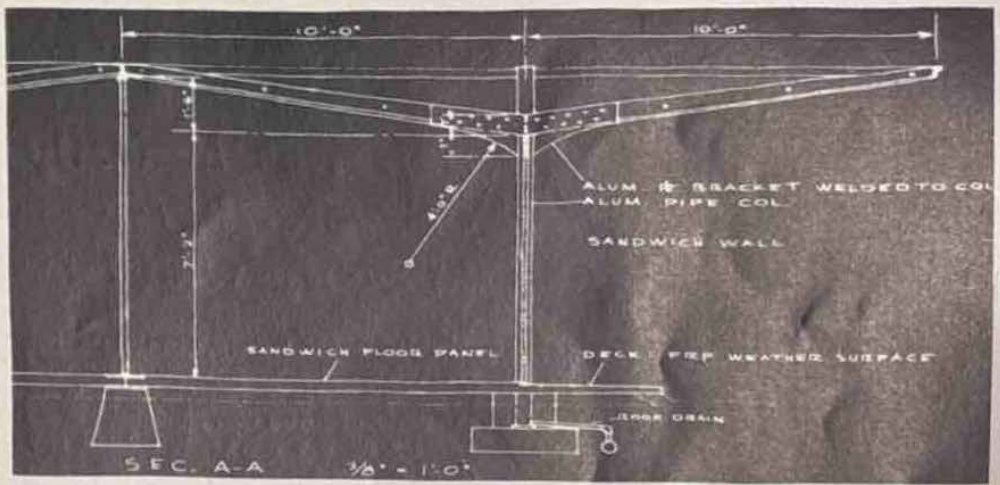

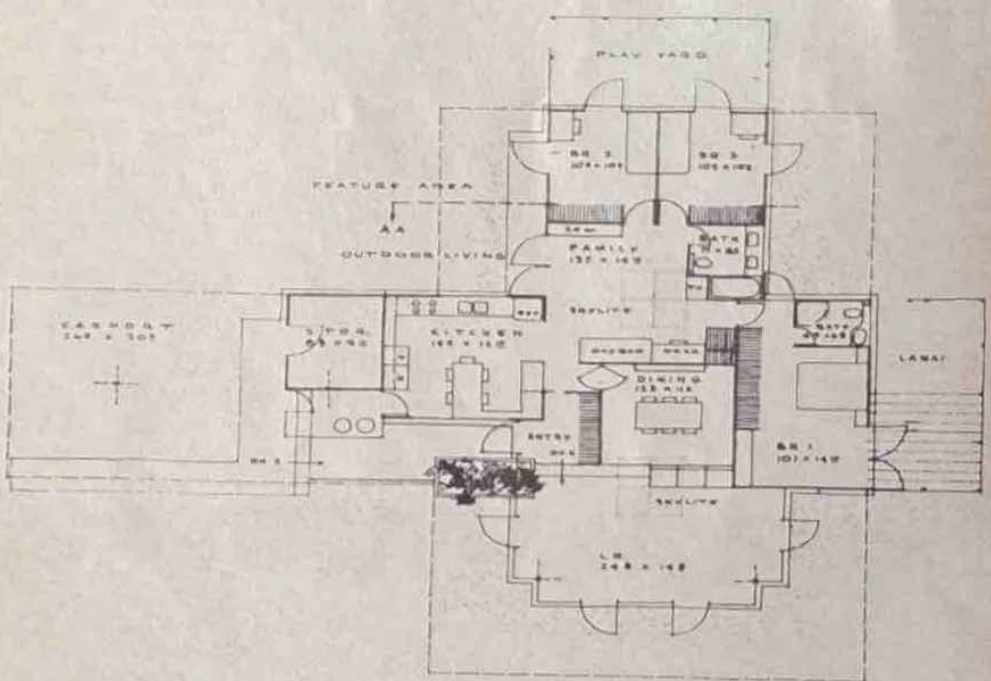

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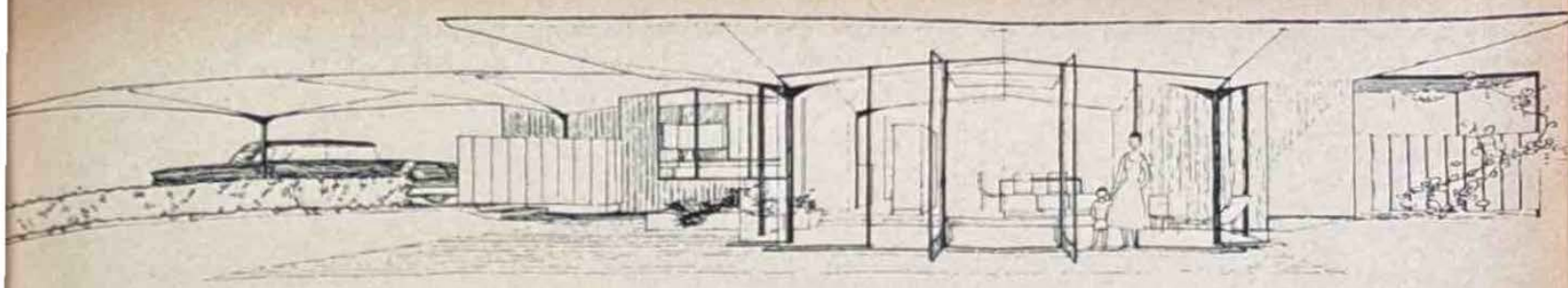

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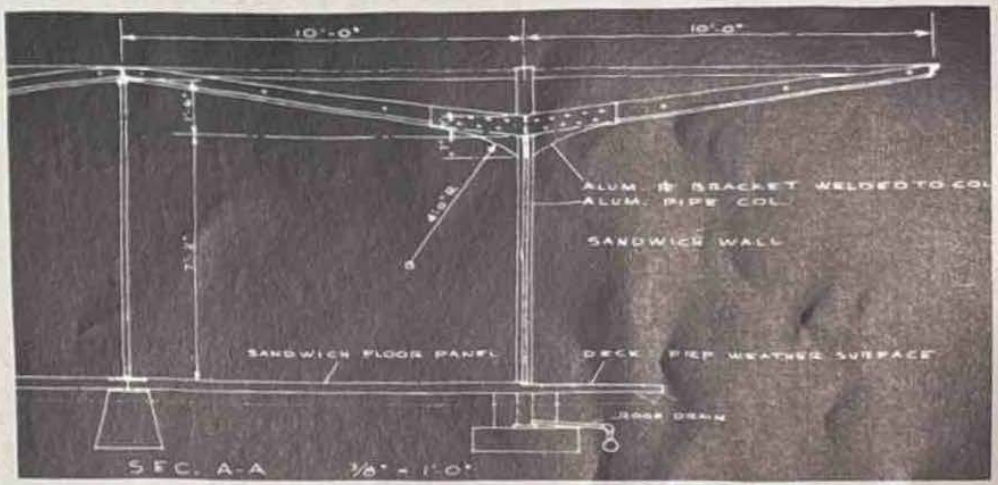
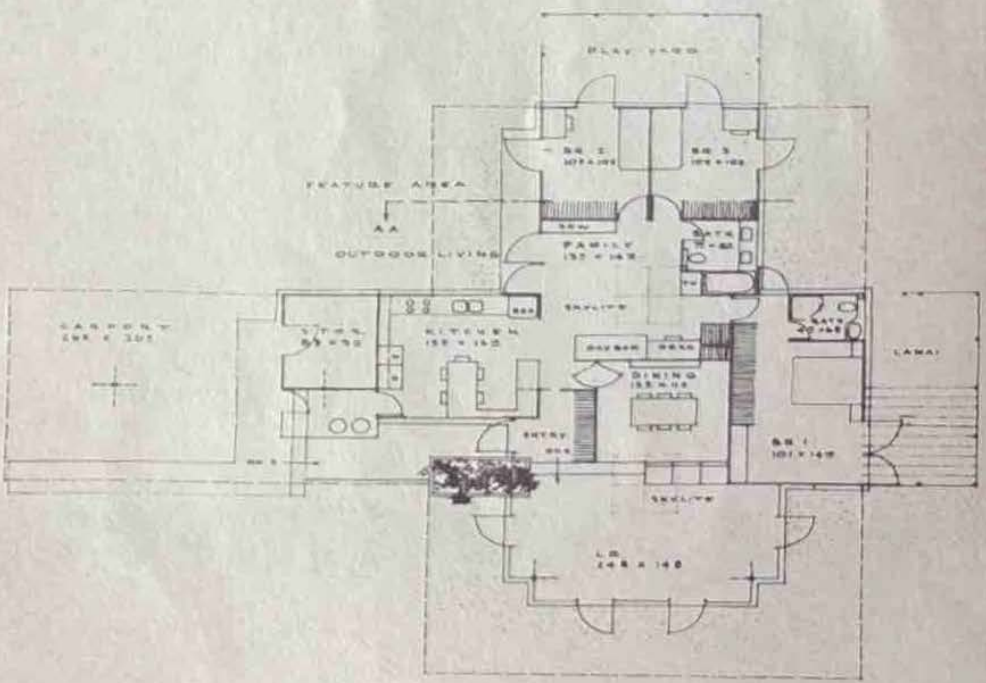


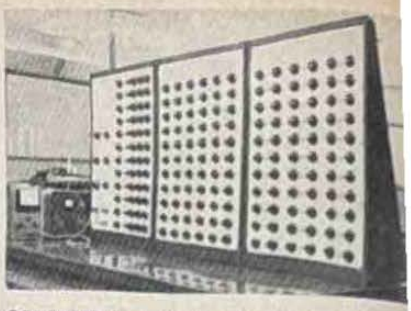


Analogue computer makes lighting calculations

Lighting engineers at Smoot-Holman Co. of Inglewood, Calif., have taken much of the guesswork out of lighting design with a luminous analogue computer that makes lighting calculation a matter of science.

This new machine, which was built by research engineer Bill F. Jones, determines exactly how light is distributed within a room by setting up electrically inside the computer the same lighting conditions as those in the room. By doing this the computer is able to make calculations that determine the brightnesses and amount of light.

The basic working principle of the computer was formulated by Philip F. O'Brien of UCLA where the first of this type was built. The Smoot-Holman computer is an adaptation of the O'Brien design.



COMPUTER is indicative of continued growth of lighting industry.

The computer forms an electrical network analogue of the distribution of light flux within a room. It does this by using voltages to represent surface brightness and by using variable resistances to represent functions of the area and reflectance of each surface and of the per cent of flux transferred from one surface to another. In this way the computer is able to analyze the flux distribution, including interreflections, of any enclosure within its range. It can analyze enclosures having up to 12 surfaces and can handle more complex enclosures by use of equivalent reflectances for parts of an enclosure.

Any lighting problem involving primarily diffusely reflecting surfaces can be solved by the computer. Among them: determining fixture design and analysis; calculating coefficients of utilization; calculating illumination at any specific location within an area; calculating brightness of room surfaces; determining distribution of illumination and brightness in asymmetrical rooms; solving daylighting problems; and determining effects of partitions and other obstructions.

•

QUAKEPROOF IS WORD

for this 43-story Mexico City skyscraper, Latino-Americana Tower, which sat unharmed through worst quake on record in Mexico last year. American Institute of Steel Construction has given its annual Award of Merit to owners of structure.

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Invisible DARACONE

performs honestly in protecting masonry walls!

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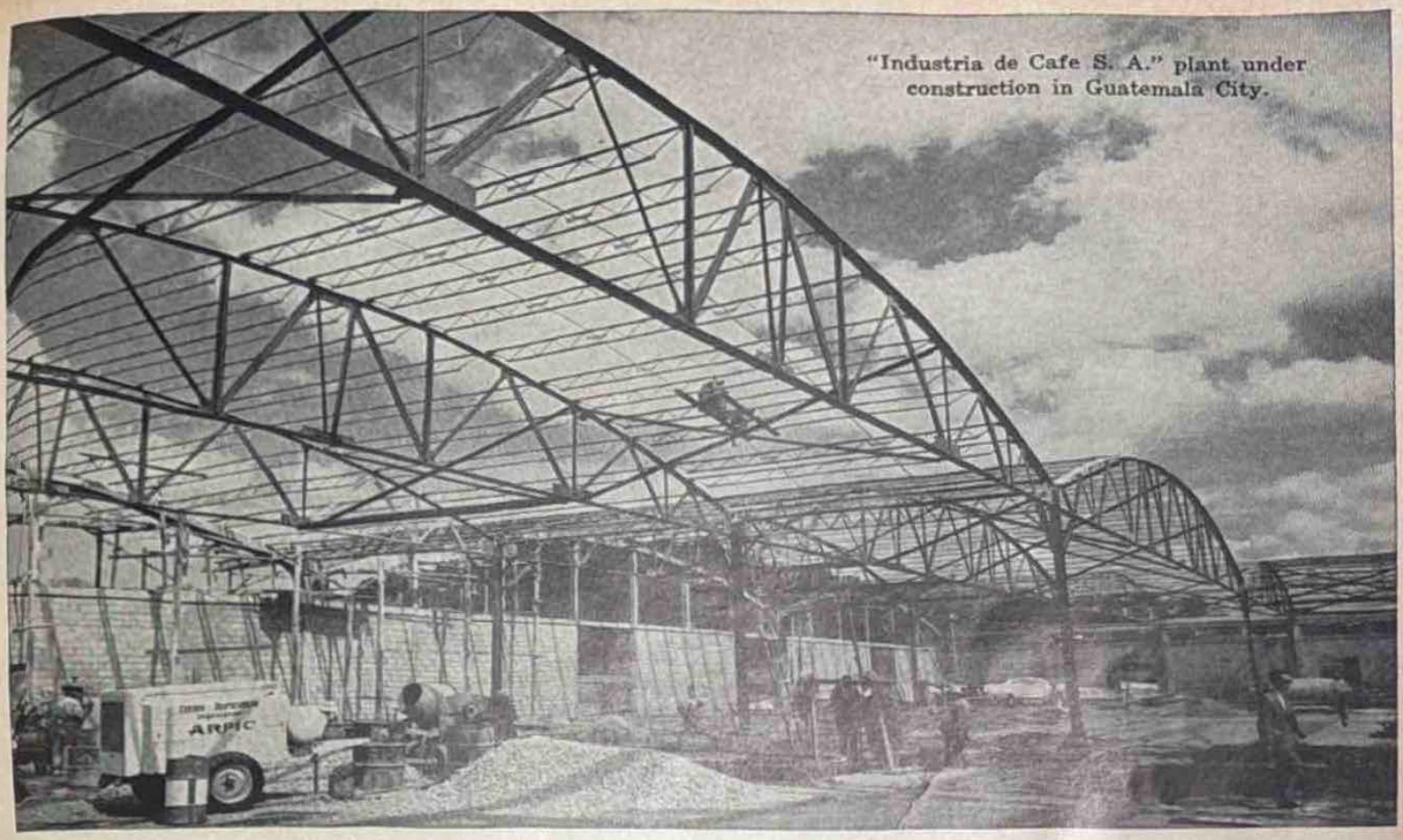
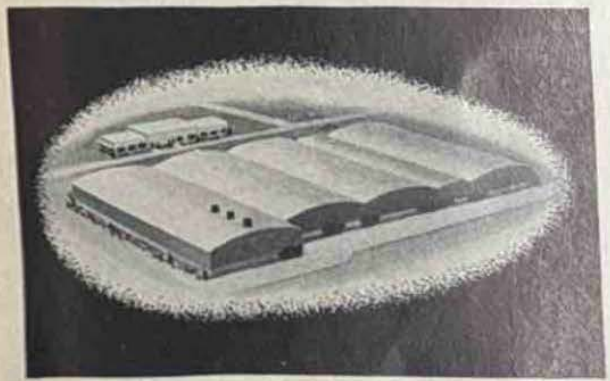


"Industria de Cafe S. A." plant under construction in Guatemala City.

Clear spans up to 110 feet, designed for hurricane wind loads with...



Completed Reynolds Aluminum Company of Cuba plant located near Havana.

MACOMBER V-BOWSTRING TRUSSES

The new all-aluminum, 73,600 square foot plant of Reynolds Aluminum Company of Cuba, near Havana is an example of the use of Macomber steel framing featuring V-Bowstring Trusses designed to meet hurricane wind-load requirements. Another recent Latin-American structure incorporating V-Bowstring Trusses is the Industrial de Cafe, S. A., 52,000 square foot plant in Guatemala City.

The inherent strength of the Macomber V-Bowstring Trusses, incorporating the greater structural values of cold-rollformed chords and webs, permits clear spans up to 110 feet for large unobstructed bay areas. The use of standard Macomber steel framing units simplifies design to speed erection and cut costs.

This new Macomber V-Bowstring design Manual is just off the press. Write for your copy.

MACOMBER

CANTON 1, OHIO

PRODUCTS

air conditioners

Cabinet design has been given particular attention in the Zone Air series of room unit air conditioners, in eight models ranging from 1½- to 10-ton capacities. Like their concealed type counterpart, the cabinet units are planned for direct expansion, hot or cold water, or direct expansion and water. No ductwork or tearing out partitions for installation is required. Stressing quietness of operation, the units are recommended for hotels, motels, hospitals, offices, stores, restaurants, etc.—A. H. Witt Co., Inc.

(Item No. 1)

rolling door hardware

Washington's "647" by-passing wardrobe rolling door hardware uses Teflon coated hangar axles to provide lifetime lubrication for the nylon wheels. Aluminum track is heat treated to give a 50% increase in yield strength without increasing weight. Doors from ⅝- to 1⅜-in. thick can be hung with one standard set of hangars.—Washington Steel Products, Inc.

(Item No. 2)

industrial fixtures

The All-Brite line of industrial fixtures consists of RLM Series 81, semi-direct with upward component, and Series 80, totally direct, equal in quality to the former but not designed for RLM specifications. Heavy return flanges on lower edge of porcelain enamel reflectors preserve longitudinal straightness. Metal-clad and metal-backed sockets are seated in tapered die-formed housings which can be instantly removed in continuous row installations for socket replacements. Joiner provides perfect

alignment of fixtures in continuous rows. Fully metal-framed 35-30 deg. metal louvers are available and all models may be mounted on surface, chains or stems.—Fluorescent Fixtures of California.

(Item No. 3)

reflective insulation

With the increasing use of low pitched roofs and open-eave construction in today's homes, architects and builders are taking a fresh look at insulating materials. Reflective insulation has come into favor because of its advantages for combatting summer heat gain and aluminum foil has the added feature of being highly wind-resistant. Four types of Alfol insulation have a boxlike design that provides full edge-to-edge coverage. Self-expanding blankets completely fill framing spaces, with the innermost reflective surface extending fully to the edge of each framing member. —Reflectal Corp.

(Item No. 4)

storage covers

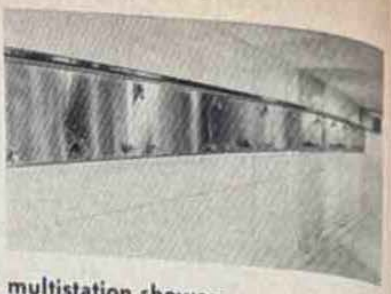
Originally developed for Northwest lumber mills, waterproof Sisalkraft storage covers provide inexpensive protection for all building materials from sun and rain. They are prefabricated in sizes from 4 to 20 ft. long and in varying widths.—American Sisalkraft Corp.

(Item No. 5)

bathroom fixtures

Mat finished floors reduce the hazards of wet surface slipping in the Glaceramic bathroom fixture line. Walls and sides of the stall showers, septor bases and bathtubs are satinlike to the touch, but a soft chamois finish is used where foot contact is made. Completely seamless nature of the designs eliminates accumulation of bacteria and discolorations caused by the disintegration of porous joining mastics.—Dudley Industrial Corp.

(Item No. 6)



multistation showers

The Arvin type multistation shower fixtures for schools, colleges, institutions and industrial plants present the architectural advantages of concealed piping yet retain the ease of accessibility normally found only in exposed piping installations. In units of one, two, three or four shower stations, basic module combinations have showers on 36-in. centers. Overlay connections, access panels and right angle corner units provide adequate combinations for most design requirements.—The Logan Manufacturing Co.

(Item No. 7)

cathedral materials

In establishing a distribution program of significant cathedral materials, a Northwest plastics firm has gathered materials from throughout the country, in addition to those of its own manufacturing subsidiary. Included are a variety of structural glazing products in thermoplastics and reinforced plastics in special cathedral colors, along with decorative and colorful translucent sandwich panels in standard and custom configurations. An extensive custom composite series employing all suitable media such as glass, plastics, ceramics and metals is available under the direction of James Bartell, artist now on the company staff.—Architectural Plastics Corp.

(Item No. 8)

architectural letters

Vogue style architectural metal letters for identifying buildings utilize small, subtle serifs and a slight contrast of thick and thin strokes. In sizes from 1½ to 18 in. high, they are custom cast in brass, bronze, aluminum or nickel-silver and fabricated for larger lettering needs in stainless steel. Chrome and gold plated letters also are offered.—A. J. Bayer Co.

(Item No. 9)

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Title

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LITERATURE

Readers are requested to write directly to manufacturers for the following literature.

Curtis Aluminettes: shows the custom appearance that can be obtained with partitions; illustrates typical office layouts, construction of panels, method of installation: 8 pp.—Curtis Office Partition Co., Inc., 103 Union St., Brooklyn 13, N.Y.

Railings in the Modern Manner: shows detail drawings that are helpful to those who design, specify or install railings for home, commercial and industrial purposes; 8 pp.—Julius Blum & Co., Inc., Carlstadt, N.J.

Granco Product Manual (AIA 17-A): covers Tufcor, a new concept in roof construction, and Structur-Acoustic; discusses details, selection, specifications; 16 pp.—Granco Steel Products Co., 6506 N. Broadway, St. Louis 15, Mo.

D&H PyroDor Catalog (AIA 16-A): describes line of integral door, frame and hardware units; covers Underwriters requirements and limitations; 24 pp.—Dusing & Hunt, Inc., 53 Lake St., Leroy, N.Y.

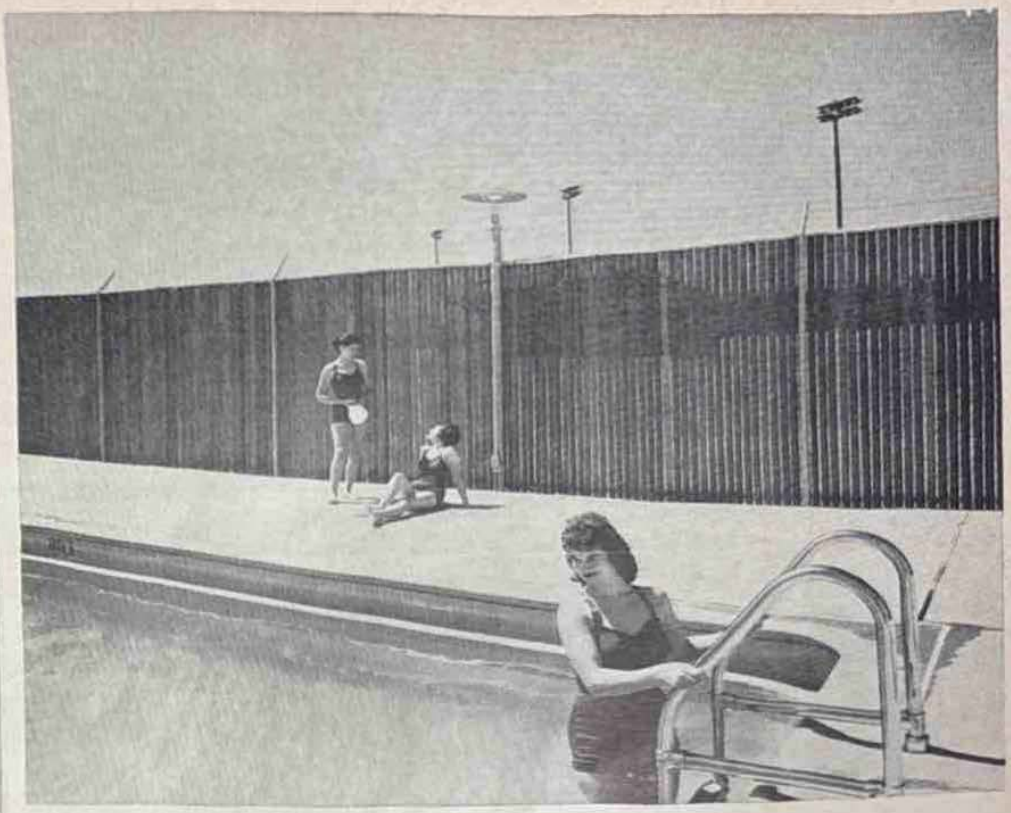
In-Sink-Erator Garbage Disposers (AIA 29-H-61): illustrates all units; has rough-in dimension charts, labeled cutaway and closeup photos of parts; 12 pp.—In-Sink-Erator Mfg. Co., Racine, Wis.

Dwyer Snack Bar (AIA 35-C-1): illustrates several models; gives dimensions and finishes; 4 pp.—Dwyer Products Corp., Michigan City, Ind.

Waterloo Air Diffusion Equipment (AIA 30-J): has 40 photos and 35 drawings of complete line of grilles and registers, section tables for each of 26 standard sizes and for new grilles with curved louvers; 54 pp.—Waterloo Register Co., Inc., P.O. Box 72, Waterloo, Iowa.

Koroseal Vinyl Coated Fabrics (AIA 28-C): has several installations shown in colorful photos; includes color chart; 8 pp.—B. F. Goodrich Industrial Products Co., Coated Fabrics Dept., Marietta, Ohio.

Resolite Daylighting Products (AIA 26-A-9): contains general data, specifications, architectural and engineering details, suggested applications on line



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LITERATURE

of Fiberglas reinforced plastic products; 22 pp.—Resolite Corp., Zelienople, Pa.

Glass for Construction (AIA 26-A): covers flat and patterned glass; has specifications, cross sections, details; 36 pp.—Libbey-Owens-Ford Glass Co., Toledo 3, Ohio.

Rosboro Timber Fabrication (AIA 19-B): illustrates truss and lamella roof construction and applications of engineered timber construction to commercial and industrial buildings, schools and churches; 12 pp.—Rosboro Lumber Co., Springfield, Ore.

Haws-Kramer Flush Valves (AIA 29-H-21): describes complete line; has rough-in drawings for 40 combinations of Nyla-Phragm and piston type installations, operational and repair parts drawings, etc.; 20 pp.—Haws-Kramer Flush Valves, 819 Bryant St., San Francisco 3, Calif.

Wood Educational Laboratory Furniture (AIA 35-E): helpful as a planning aid for secondary schools and junior colleges, with dimension drawings and specifications; describes complete line; 68 pp.—Kewaunee Mfg. Co., 5124 S. Center St., Adrian, Mich.

Structural Sealing with Elastomeric Type Sealants: serves as reference manual for all types of building applications, from curtain wall to conventional structures; has case histories; shows applications as sealing copings, expansion joints, tile and masonry; 12 pp.—Thiokol Chemical Corp., 780 N. Clinton Ave., Trenton 7, N.J.

Form Board for Poured-in-Place Roof Decks (AIA 37-B): includes specification tables for heat transmission coefficients, painting and ventilating instructions, architectural specifications and drawings of typical gypsum roof deck sections, subpurlin design table; 8 pp.—Owens-Corning Fiberglas Corp., Toledo 1, Ohio.

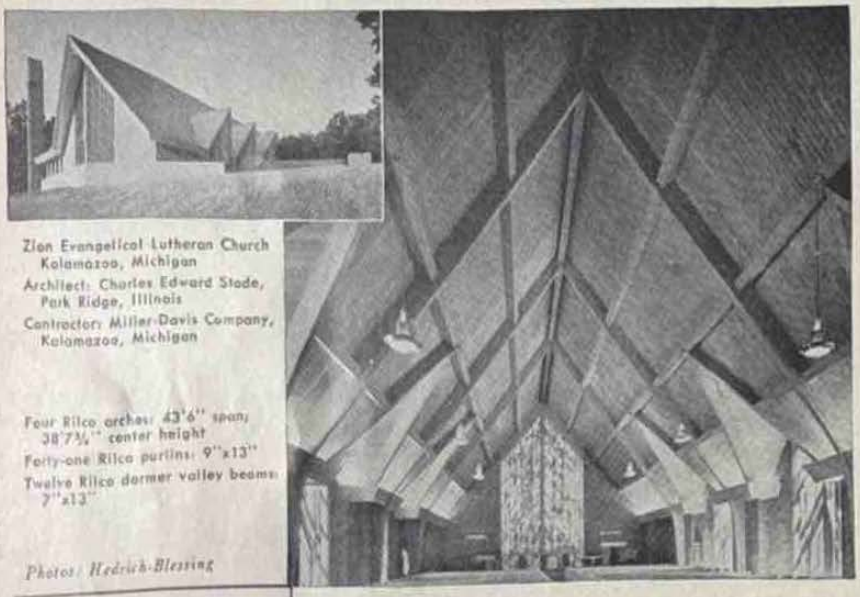
Highlights of Faries Research on Student Lighting: summary of study covering factors relating to good dormitory lighting—size and location of desk, color of desk top, light distribution, eye relaxation; 4 pp.—Faries Lamp Division, Elwood, Ind.

Today's Better Schools Are Made of Wood (AIA 19-A-1): follows school construction projects step by step with picture stories in full color; has maintenance cost figures, sketches of labor and cost saving wood floor systems; 12 pp.—West Coast Lumbermen's Association, 1410 S.W. Morrison St., Portland 5, Ore.

Comfort Everybody Can Afford: results of a two-year independent study conducted by the National Bureau of Standards, making possible for the first time accurate calculations of the value of aluminum-clad insulations; aimed at securing data to determine heat transmission values when aluminum is used either alone or in combination with other insulating materials in any confined space; 48 pp.—Aluminum Company of America, Pittsburgh 19, Pa.

The Radiant Heating and Cooling Story (AIA 30-C-44): explains key features of system, with typical sections for concrete and wood floors or ceiling installation; 6 pp.—The Radiant Heating and Cooling Institute, 5657 Wilshire Blvd., Los Angeles 36, Calif.

Painting Asbestos-Cement Products: discusses types of paint that can be used, advantages of each, surface preparation of material to be painted,



Zion Evangelical Lutheran Church
Kalamazoo, Michigan
Architect: Charles Edward Stade,
Park Ridge, Illinois
Contractor: Miller-Davis Company,
Kalamazoo, Michigan

Four Rilco arches: 43'6" span;
38'7¼" center height
Forty-one Rilco purlins: 9"x13"
Twelve Rilco dormer valley beams:
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Photos: Hedrich-Blessing

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recommended procedures of applying paint; 12 pp.—Asbestos-Cement Products Association, 509 Madison Ave., New York 22, N.Y.

A Question of Value and Your Community Dollars: provides in photos and non-technical language extensive information about engineered timber; 16 pp.—American Institute of Timber Construction, 1757 K St., N.W., Washington 6, D.C.

Practical Answers to Common Questions about Central Air Conditioning: helpful reference describing major types of systems and how they are installed in the home; 24 pp.—Minneapolis-Honeywell Regulator Co., Minneapolis 8, Minn.

Acrylic Emulsion Paints for Exterior Masonry: based on lectures prepared by Gerould Allyn for the University of Florida's 1958 Short Course in Paint Technology; companion booklet to author's "Basic Concepts of Acrylic Emulsion Paint Technology" published last year; 8 pp.—Rohm & Haas Co., Washington Square, Philadelphia 5, Pa.

Why and Where to Specify Latex Paint: "fills a gap of missing technical background, explains basic terms, states simply what these products are good for and what they are not good for, doesn't presume to say the last word on the subject and in effect appeals to the much vaunted reason and hardheadedness of architects and specification writers," says introduction by an architect; 18 pp.—The Dow Chemical Co., Midland, Mich.

Specifications for Metal Lathing and Furring (AIA 20-B-1): 1958 version includes a page devoted to fire-resistive ratings, along with specifications for solid and hollow partitions, wall furring, metal lath attached directly to wood supports, contact, furred and suspended ceilings; beam and column protection for fireproofing; reinforcing for exterior stucco; 20 pp.—Metal Lath Manufacturers Association, Engineers Building, Cleveland 14, Ohio.

How to Sell Homes Faster with Armstrong Floors: new edition of 1957 booklet has descriptive sections on latest advances in resilient flooring and complete range of merchandising aids available to builders; 48 pp.—Armstrong Cork Co., Lancaster, Pa.

Noise Control for Bowling Lanes (AIA 39-B): designed to aid bowling lane planners and owners in recognizing extent of acoustical problems and taking effective control measures in either new construction or remodeling; 4 pp. plus 3 installation detail sheets.—Reynolds Metals Co., Richmond 18, Va.

Data Sheets for Vermiculite Concrete Roof Insulation and Roof Decks: cover 1:6 and 1:8 mixes over vented galvanized steel roof decks and over structural or precast concrete decks; vermiculite decks over fiber insulation and acoustical form boards, glass fiber acoustical form board, cement-asbestos form board, paper-backed wire lath; 8 sheets plus long-form specification.—Vermiculite Institute, 208 S. LaSalle St., Chicago 4, Ill.

The George Nelson Sketchbook: presents in sketch form current and projected uses of expanded metals such as sunshade and decorative front, sliding screen, screen for patio, air conditioner; 10 pp.—United States Gypsum Co., 300 W. Adams, Chicago 6, Ill.

Home Planners: contains striking illustrations of interior and exterior redwood usage, principally in color; prepared as special edition of quarterly publication entitled Redwood News; 16 pp.—California Redwood Association, 576 Sacramento St., San Francisco 11, Calif.

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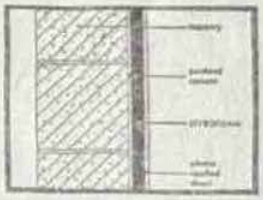

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MANUFACTURERS/SUPPLIERS

• **Day-Brite Lighting, Inc., of California** has promoted Bernard J. Gaerling to the post of sales manager, replacing Stanley H. Bixler who has been named senior vice president and general manager of the company's national operations in St. Louis.

• **Arcadia Metal Products** of Fullerton, Calif., has formed an architectural sales division to act in a technical advisory capacity to architects and contractors regarding applications of sliding doors, windows and window walls. Heading the division is Lloyd O. Johnson, who is also assistant sales manager.

• **Permanente Cement Co.** has purchased the English-owned Olympic Portland Cement Co., Ltd., which includes a 1,750,000-bbl. capacity plant in Bellingham, Wash., and storage facilities in Seattle. Permanente's existing Pacific Northwest division and Olympic will be operated as separate divisions and will market their present brands of cement individually.

• **Fluidmaster, Inc.,** of Anaheim, Calif., has named Fred E. Schmuck as national sales manager. The company was recently formed by Adolf Schoepe, founder and former president of Kwikset Locks, Inc., to develop new systems of fluid controls and is in production on its first application—a stainless steel, hydraulic ball cock for toilets.

• **Fiddes-Moore & Co.,** subsidiary of Evans Products Co., has opened a new office in Portland, headed by Emory Moore, as another step in the expanding building materials marketing program of the two companies.

• **Pioneer Manufacturing Co.** of Los Angeles has purchased a 2½-acre tract on Andrita Street adjoining its present facilities in a move to increase production capacity. The property includes a 25,000-sq. ft. office building and several smaller structures.

• **Ador Sales** of Fullerton, Calif., has named Henry (Bud) Woodward as special assistant to C. E. Munson, vice president in charge of sales.

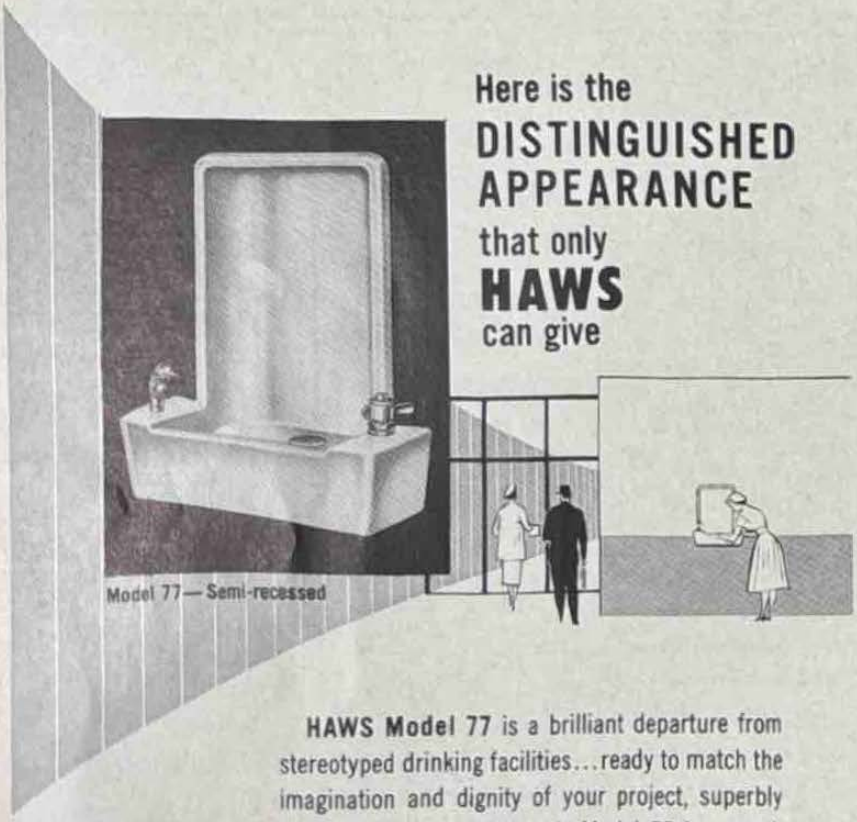
• **Glide Windows, Inc.,** and **The Gridwall Co.** of North Hollywood, Calif., have appointed Robert J. Fay as vice president and general manager.

• **A. C. Horn Company** of San Francisco has appointed its general manager, Stanford R. Horn, to a vice presidency.

• **Touch-Plate Mfg. Corp.** of Paramount, Calif., has added two representatives to its sales staff, Harvey L. Laughlin Jr. and John R. (Mac) Hunter, as part of its nationwide expansion program.

• **Crane Co.** has appointed a new West Coast sales district manager in Los Angeles, Robert E. Penney, succeeding Darrell R. Nordwall who goes to Chicago as general manager of merchandising.

• **Ramco Manufacturing and Engineering** of Portland has begun production of a complete line of residential and commercial electrical heating equipment, including baseboard, wall and bathroom type units, at 5413 N.E. Columbia Blvd. In partnership as



HAWS Model 77 is a brilliant departure from stereotyped drinking facilities...ready to match the imagination and dignity of your project, superbly styled, precision-engineered. Model 77 is a semi-recessed wall fountain—in durable vitreous china, available in striking colors, with automatic volume and pressure controls. And the same design is available in stainless steel (Model 73); or in remarkably tough, lightweight fiberglass (Model 69, in choice of colors at no extra cost).

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FIRST ANNUAL AWARD
of Spokane Chamber of Commerce is received on behalf of Gladding, McBean & Co. by president C. W. Planje (left) from chamber head Joseph W. Kipper (center), while Washington's Gov. Albert D. Rosellini looks on. Company recently completed $2 million heavy clay products plant at Mica, Wash.

•

owners of the firms are brothers Lester V. and Emil A. Ramberg, who plan to diversify the plant's output later by producing other types of electrical equipment.

• **Cleaver-Brooks Co.** has appointed Richard F. Gray as sales representative in the state of Oregon and southern Washington.

• **Acme Industries, Inc.,** has named Thomas Davenport as sales engineer in the San Francisco territory.

• **Basalt Rock Co.** of Napa, Calif., has established a new consulting service on the manufacture of plant cast, prestressed concrete products.

• **Robbins Floor Products, Inc.,** has opened a permanent showroom in the newly constructed Furniture Mart in Los Angeles, where regional manager H. V. Fitzpatrick also has office facilities.

• **Kaiser Steel Corp.** is now using facilities designed to increase tin plate production by 85% at its Fontana, Calif,. plant.

• **Radford Supply Co.** of Santa Maria, Calif. has added three California distributors for its aluminum sliding glass window line: Bermuda Door Co., Inc., San Leandro; Hogan Wholesale Building Materials Co., Oakland; and McLeod Glass Co., Mountain View.

• **Simpson Timber Co.** of Seattle has appointed C. H. Bacon Jr. to the newly created position of executive vice president. Harold W. McClary, formerly manager of lumber, plywood and door products, succeeds Bacon as vice president and general manager of Simpson Logging Co. of Shelton, Wash.

• **North American Asbestos Corp.** has appointed United States Plywood Corp. as distributor for Asbestolux, fireproof insulating board, with initial warehouse stocks on the West Coast in Seattle, San Francisco and Los Angeles.

• **Koppers Co.** has presented a fifth-year scholarship to John G. Foti of the University of California, as winner at one of five schools participating in the Architectural Student Design competition.

• **Drayer-Hanson,** Division of National-U. S. Radiator Corp. has appointed Pacific Monitor of Seattle as its representative in the states of Washington and Oregon.

• **Cast Iron Soil Pipe Foundation** of Los Angeles has issued a 50-year written guarantee on the cast iron soil pipe and fittings manufactured by its members and used in residential construction in the states of California, Oregon,

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K & K Body Works, *Los Angeles*
McDowell & Craig, *Norwalk*
Nardon Manufacturing Co., *Alhambra*
Pacific-Southern Foundaries, Inc., *Bakersfield*
Pioneer Diecasters, Inc., *Los Angeles*
Rohr Aircraft, *Chula Vista*
H. L. Whiting Co., *Los Angeles*
Biner-Ellison, *Los Angeles*
Pacific Steel Casting Company, *Berkeley*

McDowell & Craig, Norwalk, chose 12 COLT CO-2046 Clear-Opening Adjustable Louver Ventilators for all-year comfort.

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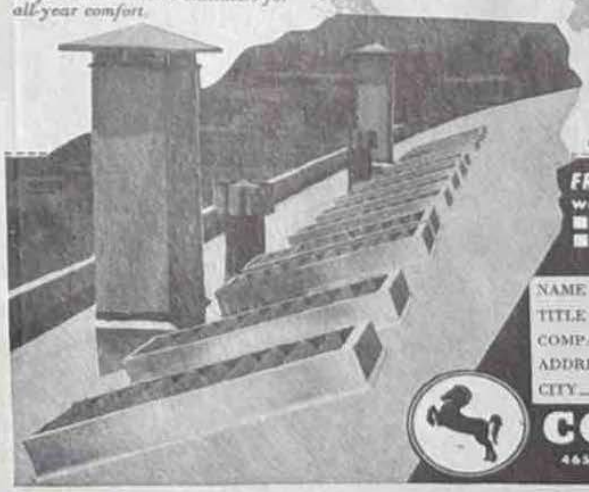

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Washington, Idaho, Nevada, Utah and Arizona. The guarantee, believed to be the first of its type in the industry, is "against failure due to root penetration, casting holes, internal corrosion or collapse in use under ground pressure, for a period of 50 years from and after the date of installation."

• **Trueforms, Inc.,** of Seattle and San Leandro, Calif., which markets a patented tie holder for concrete forming, has announced an increased sales program under the direction of Charles E. Barnes, formerly sales and advertising manager of a New York heating firm.

NATIONAL ASSOCIATIONS

• **American Zinc Institute** has re-elected its entire slate of officers, headed by S. D. Strauss, vice president and manager of sales, American Smelting and Refining Co., New York.

• **Acoustical Materials Association** has named Paul J. Washburn of Johns-Manville Sales Corp., New York, as president.

• **American Institute of Timber Construction** has appointed John K. Purcell as director of public relations, joining the headquarters staff in Washington, D. C., with 22 years' experience in news-gathering and dissemination.

MEMBERSHIP PLAQUE

in newly formed Johns-Manville Quarter Century Club for Industrial Insulation Contractors goes to E. J. Bartells Co. of Seattle. At luncheon ceremony J. W. Amis, contracting firm president, is flanked by E. D. Flavin, vice president and general sales manager, Johns-Manville, and C. J. Rossio, northwestern district manager. Closely associated with manufacturer for 20 years, Bartells firm has four branches in Washington, two in Oregon and in Anchorage, Alaska.

•

•**Vermiculite Institute** has elected as president, J. Brooks Robinson, vice president of Robinson Insulation Co., Great Falls, Mont.

Design and human problems Cont'd. from p. 14

canyon streets and plays with the contrasting values of low and high buildings, of glass and concrete, and of trees and flowers.

* * *

The present interaction between man and environment has been debased to a utilitarian conquest of nature and an economic megolomania of man. It is not a mutual adaptation guided by empathy and wisdom which alone can produce great works of architecture, city planning and all the other arts. If these present conditions continue, if Economic Man perseveres, our landscape will remain at best a tolerated appendix of haphazardly dispersed and isolated buildings and technical feats and, at worst, a commercialized chaos.

If the present trend persists, the landscape of this country, just as that of many other countries, will have been reduced within one generation's time to a chaotic mess of suburbias —or rather subtopias—surrounding work-centered, disjointed and anti-human conglomerations called cities, metropoleis or megalopoleis connected by a vast network of superhighways running as billboard canyons through the country.

* * *

This is the answer to: how will our world look tomorrow, if we do not muster the courage to go beyond timid, fractional and insufficient reforms. "Can our cities survive"? The answer to this wrong question is: they cannot.

What should be done? The aim is: to create a dignified environment in which man can live a full life that frees him from the satanic power of the rhythm of work; to create an integrated culture in which every human emanation is deeply embedded in the fertile humus of social consciousness; to bring order, a sublime and stimulating order, out of the present jungle of man-made works; to imbue a unity of purpose and expression into every human manifestation.

* * *

Our cities have run their course. The conception of a city is too limited for our widening idea and experience of space. Our cities are like the elephantiasis of small towns and therefore antiquated.

THE END OF CITIES MEANS THE RISE OF COMMUNITIES. OUR ENVIRONMENT IS EXPANDING.

Therefore, our cities are to be dispersed; our industries and commercial concentrations are to be decentralized; our landscape has to be recreated; small communities spread systemat-

ically over the country and filled with a genuinely social coherence and awareness are to be developed; work and home are to be related in a new proximity and traffic is to be reduced, not expanded; a new landscape is to be shaped covering the country like a continuous green carpet interrupted by small community units distinct in character, limited in size and each serving a different function.

• • •

We should not try to make the coming era the American Century or the Atomic Age. The future will not be the age of any one country, of any one invention, nor will it be the Age of the Common Man or the Age of the Outer Spaces. The world is one and there is only one goal: to pave the way toward the AGE OF MAN.

Architecture in the Landscape—Henry Hill, architect, San Francisco.

Today's architect should have the understanding and realization of the fundamental differences in approach and thinking, and the consequent results of his basic two choices—two concepts: 1) design **from** the problem and the site, or 2) design **to** the problem and the site.

The latter is, I believe, arbitrary and at best a brilliant intellectual application **to** the problem and the site, and is, in result, **to** the human being. The former, I believe (and am primarily concerned with this) is a three-dimensional concept which grows **from** the problem and the site and is, in result, **of** the human being.

Architecture and landscape—all that is encompassed by the eye—must be of a unity, accomplished through understanding — natural and human, and sensitivity. What man creates in three dimensions is, of course, not of nature, but an architect's truly valid contribution of his disciplined order of space within and understanding of nature—or architecture in the landscape.

• • •

I take the architect, firstly, to mean in reality a full man. The realization of the profession really does embrace and encompass all of man's physical activities and embodies all of his thinking and aspiration. Thus the architect by his very nature must be an understanding person. According to his individual ability, he participates fully on the highest plane.

Today as we are approaching a momentous change in our techniques and possibly our concepts (i.e., atomic power, new materials such as featherweight plastic beams, new space relationships) there may be a feeling of escape from it; there may be possibly a contemporary baroque, serious or otherwise. But with all of this, as of now, there is the intellectual application of a concept to the land, to the problem and to the people; and there is in contrast to this the other extreme of the development from the human being, from the land, from the needs. This is what I interpret Frank Lloyd Wright's "organic growth" to mean.

With the understanding of these, there comes the question of the architect's repsonsibility to himself, to his profession and **to his fellow professional.** If there is not the understanding, the result can only be the mediocre and I believe that this we are threatened to be engulfed by. Western civilization (some plus or minus 23 centuries) from say, the Parthenon to the UN, and the outrage of all peoples (Corbusier having called the UN a "battlehold"): is this good enough?

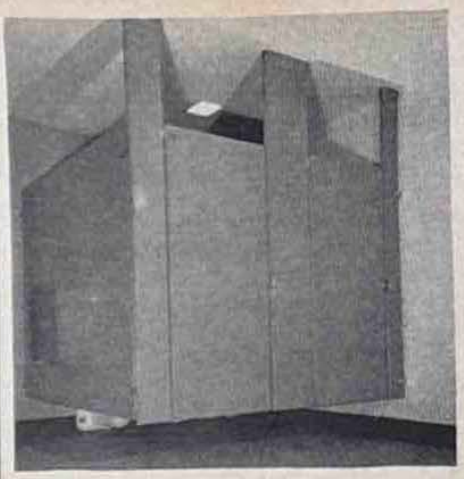
The English language is a fairly stable and clarified method of communication and therefore I assume it is in order to use the dictionary definition of landscape. Among the definitions there is the phrase "all that is encompassed by the eye." Obviously, this opens to almost limitless ramifications and implications and brings up immediately the question of the interplay of personalities, the interweaving of ideas and thinking, and in its fullest expression the participation of realization between the architect and the landscape architect.

What man does is of its nature an intellectual concept applied to; **but with understanding,** this in reality comes from. What is worth realizing must be beautiful: man's ability of order, controlled by discipline (i.e., Bach); fullest development, Gropius' "stabilized society" (i.e., the surety and knowledge of a Mozart); the unstable quality of our society, the searching and groping (i.e., Hindsmith); more profound knowledge (i.e., Sessions).

Each to his capacity of participation and this to be shared. The sharing between a client and an architect becomes much more profound; and searching between the architect and the landscape architect can be a participation to the full. But in its very best sense, and in no way an offensive sense, I believe it must be under the ultimate guidance and direction of the architect, in the same way that the profession of engineering developed as a servant of the architect; and the landscape architect is to a fuller extent still the same.

All in all, this comes to its ultimate in Eric Mendelsohn's "the courage of action" and Albert Schweitzer's "man belongs to man—man's responsibility is to man."

Continued on next page



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House in the Garden—Ed Williams, landscape architect, San Francisco.

The vine-covered cottage is a symbol of man's great desire for security, peace and pleasure. The exact picture conjured up by the phrase will vary with each individual's architectural dreams, but the dream is significant to use here in that the cottage is vine-covered, more or less enveloped by vines (rose perhaps) and probably in a garden.

This implies that man's main desires in life—security, peace and pleasure—are closely bound up in his home and in nature as represented by the vine. That man can build a house of glass and steel and plastic is a miraculous achievement of his nature. That man must symbolically cover his house with a vine is a subconscious recognition of his dependence. The vine-covered cottage symbol will probably disappear with the advance of mankind. Another symbol will take its place. Let us hope it is not a vine-covered bomb shelter.

The boundaries of the profession of landscape architecture are at this time rather nebulous. City and regional planning fades into landscape design which in turn fades into architecture and engineering in the field of site development.

How does the landscape architect achieve his goal? Design and construction processes translate these requirements into a physical environment. Landscape design is the process of solving the known human and known site requirements by predetermining the arrangement of space and materials most sympathetic and best suited to the people and site involved. Since the final arrangement of elements will be experienced physically and psychologically by those for whom the design is made, it must provide pleasurable experiences through the senses of feeling, sight, sound and smell.

The designer must depend upon his knowledge and/or sense of people's reactions to space, mass, texture, color, line, sound and fragrance and seek to arrange the materials and spaces so as to achieve maximum pleasurable response. Pleasurable response seems to spring from two sources: that which is familiar and easily understandable; and that which is new, exciting and adventuresome. In the arrangement of landscape materials and spaces, human response is anticipated by contrasts such as large and small spaces, course and refined materials, opposition of planes and lines, tension and relaxation of lines, emphasis and de-emphasis of elements, contrasts in color, etc.; and by similarities such as repetition of elements, repetition of textures, repetition of lines and forms.

Since everyone is more or less conditioned by everything seen, the basic lines, masses, spaces, shapes and textures most common in the most familiar products of our society arouse easy and familiar response when transferred into the garden. But the designer who is always in advance will continually test new arrangement of masses, spaces, lines, textures and colors. It is by such experimentation that the boundaries of the knowable world are continually pushed back.

In a sense the whole world is a garden. Because so much of the world in its natural state is not comfortably inhabitable and because so much that social man creates is ugly, confused anti-nature and anti-man, people tend to create in their private gardens a small world of peace and pleasure. Why does not skillful man with his knowledge of nature and human needs create a garden of all of his living and working environment? Our cities, suburbs and countryside can become a continuously pleasurable man-made landscape. Our challenge is to find the way to do this.

"Built-in telephone outlets are a must for any new home"

says Ray Watt, president, R. A. Watt Construction Co., Los Angeles, Calif.

"The appeal of built-in conveniences, especially to young, middle-income families today, is enormous. They want homes with built-in ranges and ovens. They look for built-in disposal and dishwasher units. And we know that planned telephone placement is every bit as essential. We never build a home today without at least two telephone outlets."

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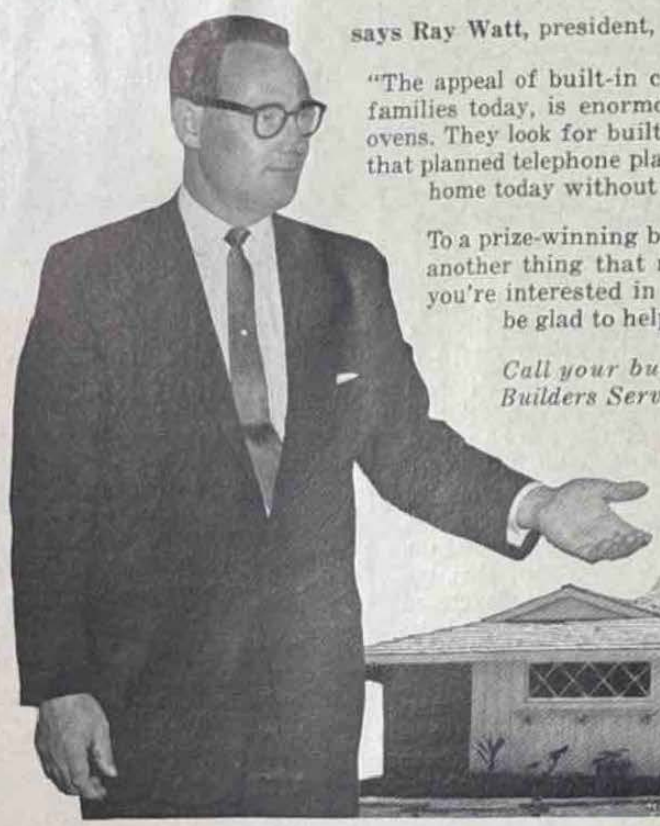

Pacific Telephone

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Construction News Bulletin

(A weekly summary of Pacific Construction Daily)

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BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

●TELEPHONE BUILDING ADDITION— Albany, Ore.

Bids will be opened 2 p.m., August 20, by Pacific Telephone and Telegraph Co. in office of Charles Twelves, chief engineer, 509 S.W. Oak, Portland, for construction of a one-story, 30'x61' addition to the company's central office building in Albany. Plans with Jacobberger, Stanton, Franks & Norman, architects, McKay Bldg., Portland.

Reinforced concrete; brick veneer; framed for a future second story and for lateral growth. Provision will be made for a 60'x112' parking area.

Planholders: Robert C. Wilson, 1275 N. 9th, Corvallis; Vik Construction Co., 160 Madison, Eugene; Erwin E. Batterman, 147 N. Commercial, Salem; John Carrick & Son, Route 3, Box 950, Albany; Teeples & Thatcher, 8850 S.E. Otty, Portland. DC 8-1

●ELEMENTARY SCHOOL ADDITION— Baker, Ore.

Bids will be opened 8 p.m., September 2, by Baker School District No. 5, Baker County, Ore., for construction of a concrete slab-on-grade, 16,500 sq. ft. addition to North Baker elementary school between 7th and 8th on B St., Baker. Plans with Hayslip, Tuft, Hewlett & Jamison, 2040 S.W. Third Ave., Portland. $25 deposit. An alternate would provide for remodeling the present school.

Included will be a classroom wing, administrative facilities, gymnasium, kitchen with cafeteria, and a small sub grade dressing room under platform in gym. Work includes removal of some bearing walls, installation of cabinet work and new work alcoves; one coat of paint; installing a plywood underlayment of floors; acoustical tile for ceilings; fluorescent fixtures for classrooms; install toilets on second floor; minor revisions to heating system; install minor partitions and finish work in basement.

Block exterior walls, paint finish; glued laminated beams; rigid insulation; built-up roofing with gravel topping; plastic and glass block skylights; aluminum and translucent sash; stopped-in glass wood frames; hollow metal exterior doors and frames; exposed block or gypsum wall board; acoustical type ceiling; fir cabinets; metal wardrobes; gas-fired boiler. LC 8-12

▲SHOP BUILDING— Brookings, Ore.

Bids were rejected by Brookings School District No. 17C, Curry County, Brookings, for construction of a 3,800 sq. ft. concrete slab-on-grade, shop wing addition to Brookings High School. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd, Portland. Bids will be re-invited after changes have been made in specifications. A tentative bid opening date has been scheduled for August 26.

The low bid was submitted August 5 by Bessonette Construction Co., 608 E. Main, Medford, $48,700. Six firms submitted bids, ranging to a high of $53,794.

DC 8-12. Previous report 7-30

■ELEMENTARY SCHOOL—Brookings, Ore.

Planholders announced for construction of a one-story, 28,000 sq. ft. elementary school near the present high school on Easy St., in Brookings. Bids will be opened 8 p.m., August 26, by Brookings School District No. 17-C, Curry County, Mrs. Dora C. Beaulieu, clerk, at Administration Office. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. Third Ave., Portland.

Planholders: Hampton C. Platt, Box 27, Salem; Horton Bros., Box 1272, Brookings; Johnston Construction Co., 260 Luther St., Salem; Besonette Construction Co., Box 709, Medford; Waldo S. Hardie & Son, Box 422, Eugene; H. G. Carl Construction Co., Box 387, Salem; Industrial Building Co., Box 869, Eugene; Cummings Construction Co., Box 865, Grants Pass; C. W. & Willis A. Hill, Box 682, Salem; A. T. Fox, Box 831, North Bend; H. Barnhart, Box 68, Medford; LeRoy Weideman, Brookings; Riverman & Sons, 1230 N.E. 63rd Ave., Portland; Ausland Construction Co., Box 437, Grants Pass.

LC 8-13. Previous report 8-9

●PAINTING— Burns, Ore.

Bids will be opened 2 p.m., September 5, by U.S. Air Force, procurement office, Geiger AFB, Wash., for painting exteriors of buildings at the 634th ACWRON in vicinity of Burns; IFB 45-614-59-13. Plans with above office.

THIRY NAMED ARCHITECT FOR SEATTLE EXPOSITION

Seattle has found a supervising architect for its integrated Civic Center-Century 21 Exposition site development right in its own back yard, with the selection of Paul Thiry as the last pages of PA&B go to press. The choice was made by two groups—the Civic Center Advisory and World Fair commissions—who earlier had recommended an advance planning fee of three times the drafting cost, allocating $100,000 for this assignment. Also adopted was a concept which includes multilevel exposition buildings grouped around open landscaped courtyards and terraces.

Planholders: E. B. Penning, 1122 E. 32nd, Spokane, Wash.; Charles A. Stapleton & Son, N. 603 Ash, Spokane; Arthur N. Syverson, 449 N. Kearney, Bend; Richard L. Adams, 1014 LaPointe St., Boise, Idaho; Jones & Co., 4536 N.E. 41st, Portland, Ore.; A & F Painting Co., 3844 E. 16th, Spokane; Springer Painting Co., W. 2104 13th Ave., Spokane; Ned Avers, 1703 2nd Ave., Spokane. LL 8-13

★SCHOOL ADDITION—Central Point, Ore.

Award to H. Barnhart, Box 68, Medford, $46,891, by School District No. 6, Jackson County, Central Point, for construction of a new music building to be joined to the present Crater High School at Central Point by a roof. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. Bids opened August 7.

OTHER BIDS: R. J. Batzer Construction Co., Box 689, Medford, $47,923; Slater & Klein, 925 S.W. Greenwood Drive, Grants Pass, $47,935; Meyers D. Jones, Box 161, Medford, $49,200; Bessonette Construction Co., Box 709, Medford, $51,460; Hamilton C. Platt, Box 27, Salem, $51,500; Ausland Construction Co., Box 437, Grants Pass, $56,860; E. J. Fordyce, 202 Olwell Way, Medford, $61,312. LC 8-13. Previous report 7-30

▲COURTHOUSE ADDITION— Coquille, Ore.

Bids were opened August 6 for construction of three-story, 50'x100' addition to Coos County Courthouse in Coquille. Plans by R. D. Kennedy, architect, 1220 S.W. Stark, Portland. LOW BASIC BIDS: George A. Moore & Associates, 923 S.W. 17th, Portland, $248,632; Jack Bruer, 1283 N. 13th, Coos Bay, $262,744; A. T. Fox, Box 831, North Bend, $268,631. DC 8-9. Previous report 7-30

WAREHOUSE— Cottage Grove, Ore.

The warehouse owned by Wayne Cannon in Cottage Grove, that was destroyed by fire earlier this year, will be rebuilt. Damage was estimated at $50,000. DC 8-12

★SCHOOL ADDITION— Crabtree, Ore.

Award to Abe & Post, 404 E. Isabella St., Lebanon, $13,484, by Crabtree School District No. 110-C, Linn County, Crabtree, for construction of one-classroom addition to existing school. Architect is Chris Jeppsen, Benton Hotel, Corvallis.

Other bids: R. C. Wilson, 1275 N. 9th St., Corvallis, $14,667; Starr Builders, 1765 S. Main St., Lebanon, $15,069.

DC 8-12. Previous report 7-24

★PARK STRUCTURES— Crater Lake National Park, Ore.

Award to Freeland Construction Co., Columbia City, Ore., $39,240, by Tom Williams, park superintendent, Crater Lake National Park, 307 Federal Bldg., Medford, for construction of a comfort station at Mazama camp ground; entrance station at Annie Spring; and 1,000 sq. ft. covered entrance way to the administration building, all in Crater Lake National Park. The three items were taken from the original bid invitation of June 24 on which bids were rejected.

ZZ 8-8. Previous report 8-6

SWIMMING POOL— Dallas, Ore.

It has been recommended to the City Council to place a $125,000 bond issue on the November 4 ballot, to finance construction of a public swimming pool. The pro-

posal suggests a site on park property located north of Levens St. Bridge. DC 8-13

HOUSING PROJECT— Eugene, Ore.
(Estimated cost $1,500,000)

Lane County is planning to sponsor a project for low-cost housing for persons over the age of 60. Federal funds will probably finance the construction. The Public Housing Authority has waived a survey which is usually required before federal funds can be used.

An architect will be retained and plans on the 150-unit project will be started in the near future. Site selected is on the property of the County Poor Farm on Coburg Road. DC 8-9

COMMISSARY; HEATING PLANT— Kingsley Field, Ore.

Action by House Appropriations Committee in Washington, D.C., approved funds for a new heating plant at Kingsley Field, Klamath Falls, in amount of $76,000. The committee rejected recommendation for construction of a commissary at the field. ZZ 7-31

★MOTEL ADDITION— Lakeview, Ore.

Award to Eldon N. Alt, Midland Road, Klamath Falls, $57,790, by Lakeview Lodge, W. R. Jennings, owner, 301 N. G St., Lakeview, for construction of 12 additional units to the Lakeview Lodge. Plans by Morrison and Howard, architects, 203-05 Williams Bldg., Klamath Falls. Electrical engineer: Carroll C. Colvin, 346 Riverside St., Klamath Falls. Mechanical engineer: John W. Merryman, 225 Grant St., Klamath Falls. Bids opened August 8.

Other bids: Gibbons & Zick Construction Co., Alturas, Calif., $62,663; Lakeview Building Materials Co., 1301 N. 4th St., Lakeview, $64,129. Among special features in new units will be safety glass tub enclosures for showers. The 12 units will be built on steel platform as second floor above parking space at ground level.

ZZ 8-13. Previous report 8-6

● ELEMENTARY SCHOOL ADDITION— Medford, Ore.

Bids will be opened 8 p.m., August 18, by School District No. 549-C, Jackson County, School Administration Bldg., 500 Monroe St., Medford, for construction of an addition to the West Side elementary school in Medford. Plans with R. J. Keeney, architect, 210 Fluhrer Bldg., Medford. $50 deposit.

Planholders: R. J. Batzer, 933 S. Holly St., Medford; Harold Salter, Rogue River; Klein Construction Co., 925 S.W. Greenwood St., Grants Pass, joint venture; Myers D. Jones, 34 S. Fir St., Medford. LC 8-13

★RESEARCH INSTITUTE— McMinnville, Ore.
(Estimated cost $150,000)

Preliminary groundwork has started and actual construction will begin later in August by H. G. Carl Construction Co., 1210 S. 22nd, Salem, on a new building for Linfield College's Research Institute. Present headquarters of the institute are in Colonial Hall, campus of Linfield College, in McMinnville.

Building will provide 12,000 sq. ft. of floor space for the institute, and will be constructed on the 35-acre tract next to the college campus. DC 8-9

● POST OFFICE REPAIRS— McMinnville, Ore.

Bids will be opened 3 p.m., P.S.T., August 29, by General Services Administration, Federal Office Bldg., 909 First Ave., Seattle, Wash., for a new marquee and miscellaneous repairs to the U.S. Post Office, Evans and 4th Streets, McMinnville; SEA-868. Plans with above office. LB 8-12

★ELEMENTARY SCHOOL ADDITION (Sub-Contracts)— North Bend, Ore.

Sub-contract awards announced by North Bend School District No. 13C, Box 847, North Bend, for a multi-purpose room kitchen addition to Hillcrest School, North Bend. Plans by Hamlin & Martin, 519 W. 12th, Eugene. General contract was awarded to Industrial Building Co., Box 869, Eugene, $85,815. AWARDS: Chambers Heating, 282 S. 2nd, Coos Bay, heating; Bick Plumbing & Heating, 135 Curtis, Coos Bay, plumbing; International Paper Co., lumber; Eddie Sherwood, 358 N. 3rd, Coos Bay, painting; Joseph F. Boldrer, 1237 Ferry, Eugene, brick; Hansen Electric, wiring and electrical fixtures; Leslie Jake, 100 Tandy Turn W., Eugene, plastering; Portland Wire & Iron, 4644 S.E. 17th, Portland, wire and iron; Mercer Steel Co., Inc., 2636 N.W. 26th Ave., Portland, reinforcing and structural steel; Acme Roofing Co., 436 Wilkie, Eugene, roofing; Chambers Heating, sheet metal; J. O. Olsen Manufacturing Co., 41 Denebo Ave. N., Eugene, mill work; Pioneer Hardware, 241 S. Broadway, Coos Bay, glass and glazing; Oster Floor Covering, asphalt tile; Bay Art Tile, 287 S. 7th, Coos Bay, ceramic tile; Commercial Tile, 2095 Cross, Eugene, acoustical tile; Marion Butler, Swan Island, Portland, aluminum sash.

LC 8-9. Previous report 7-18

■ ELEMENTARY SCHOOL ADDITIONS— Oregon City, Ore.

Additional planholders announced for construction of an addition of six classrooms at Park Place elementary school near the south bank of the Clackamas River, opposite Gladstone. Bids will be opened 8 p.m., August 19, by Luther King, clerk of School District No. 62-C, Clackamas County, Ore., in office of Superintendent at High School in Oregon City. Plans with Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Additional planholders: Norman Builders, 2805 S.W. Third Ave., Portland; Hampton C. Platt, Box 27, Salem.

LC 8-13. Previous report 7-30

HOSPITAL— Pendleton, Ore.

Construction has started on the 40-bed Pendleton Convalescent Hospital to be located about one mi. east of Pendleton on old U.S. Highway 30. DC 8-12

● COURTHOUSE ALTERATIONS— Portland, Ore.

Bids to be opened 10:30 a.m., August 21, by Multnomah County Commissioners, Courthouse, Portland for remodeling to provide two new courts in the county courthouse. Plans with county roadmaster, 2115 S.E. Morrison St., Portland. $2 deposit. Certified check 10%.

Work involves division of two existing courtrooms to provide four rooms. The present rooms are two stories high. Remodeling will involve cutting the two two-story areas into four one-story courts. DC 8-12

● ■ MAINTENANCE SHOP—Portland, Ore.

Bids will be opened 2 p.m., August 19, by U.S. Air Force, procurement office, Portland, for construction of a maintenance shop for the 337th Fighter Group at Portland Air Base. Plans with above office.

Planholders: A. C. Bardi, 8105 S.E. Duke St.; Frank C. Ralph & Sons, 2204 N.E. Alberta St.; Mason & Robinson, 2004 N.E. 137th Ave.; Charles S. Camplan Co., 2035 S.W. 58th Ave.; R. L. Greene Construction Co., 5103 N.E. 42nd Ave.; Eilson & Dean, 1016 N.E. 61st Ave.; Gulde Construction Co., 4831 N.E. 42nd Ave.; Bingham & Sons, 437 N.E. 11th Ave.; Raymond B. Ems, 13385 S.W. 72nd Ave.; W. H. Stahl Corp., 1985 S.W. Sixth Ave.; Teeples & Thatcher, 8850 S.E. Otty Road; Harold R. Muhs, 1480 Madison, Salem; Hayden Bros. Construction Co., Route 3, Box 446, Gresham; Ivard J. Broderson, Route 2, Box 470A, Vancouver, Wash. Of Portland except as noted. LC 8-12

★SOUTHEAST HIGH SCHOOL— Portland, Ore.

Award to Ross B. Hammond, Box 3901, Portland, $4,737,788 ($8,888 deductive alt. 1), by Portland School District No. 1, L. J. Baker, business manager, 620 N.E. Halsey St., Portland, for construction of 260,800 sq. ft., two and three-story, reinforced concrete high school at S.E. 91st Ave. and Bush St., on 21-acre site. Plans by Stanton, Boles, Maguire & Church, architects, 208 S.W. Stark St., Portland.

Six bids received August 6. OTHER BIDS: Hoffman Construction Co., 715 S.W. Columbia, Portland, $4,779,000 ($11,000 deductive alt. 1). HI: Smith-Phillips Co., 7402 S.W. Macadam Ave., Portland, $4,942,881 ($2,36 deductive alt. 1).

CG 8-8. Previous report 7-11

★BRANCH LIBRARY— Portland, Ore.

Award to Teeples & Thatcher, 8250 S.E. Otty Road, $114,000, by the Library Association of Portland, Bernard Van Horne, librarian, 801 S. 10th Ave., Portland, for construction of an 8,000 sq. ft., one-story, reinforced concrete structure for the Hollywood Branch Library, at 3930 N.E. Hancock. Architect is Stewart & Richardson, 219 S.W. Stark, Portland. DC 8-8. Previous report 8-1

MOTEL— Portland, Ore.
(Estimated cost $200,000)

Plans have been completed by owners, Travelodge Corp., 3045 Moore St., San Diego, Calif., on the proposed three-story motel to be erected at 949 E. Burnside St. in Portland.

Plans call for 10,200 sq. ft. of floor space on ground floor; the top level will be set back; rooms with connecting balconies; concrete slab with 8" concrete block walls; some brick veneer; aluminum sash; frame partitions with gypsum lath and plaster finish; frame with joists and plywood sheathing on upper floors. DC 8-12

▲GROCERY STORE— Portland, Ore.

Four bids received by Lloyd Corp., Ltd., Lloyd Center, Portland, for construction of a 25,000 sq. ft., grocery store facing N.E. Broadway at about 13th Ave., Portland. Plans by John Graham & Co., architect, 1426 5th, Seattle. Bids opened August 12. LOW BIDS: Henry M. Mason, 2206 N.W. Thurman, Portland, $494,533; Juhr & Sons, 1339 S.E. Gideon, Portland, $516,800. HI: Max J. Kuney, N. 120 Ralph, Spokane, Wash., $555,000. WB 8-13. Previous report 8-2

★CHURCH ADDITION— Portland, Ore.

Award to Norman Builders, 2805 S.W. 3rd, Portland, $101,197, by St. Davids Episcopal Church, 2800 S.E. Harrison, Portland, for construction of a one-story and basement addition to the existing structure. Architects are Edmundson & Kochendoerfer, and structural engineer is R. Evan Kennedy, 225 Henry Bldg., Portland.

Four firms submitted bids August 11. 2ND LOW: E. Carl Schiewe, 1024 N.E. Davis, Portland, $102,562. HI: Anfelt B. Hansen, 4115 S.E. Ogden, Portland, $113,710. WB 8-13. Previous report 8-2

CONVALESCENT HOME— Prineville, Ore.

Working drawings underway by Wicks & Brown, architects, 1129 Commercial, Astoria, for the 20-bed brick and glass Crook County convalescent home in Prineville. The Oregon State Board of Health has approved $83,000 in Hill-Burton funds to finance construction. A $20,000 tax levy over a three-year period will complete financing, which will bring the total funds to $160,000. The contract will be awarded sometime in December. LC 8-13

POST OFFICE— Roseburg, Ore.

Specifications for bids to furnish lease space for a new post office at Roseburg will be available August 14 by S. G. Schwartz, regional operations director, Post Office Dept., Box 3703, Portland. The building is to cover about 13,900 sq. ft. with space for mailing platform and maneuvering area. It is to be constructed on a site on the northwest corner of Kane and Washington streets in Roseburg. DC 8-13

MOTEL— Salem, Ore.
(Estimated cost $200,000)

A 38-unit motel is being designed and will be built by Joseph A. Kitzke, 628 Winter N.E., Salem, on a site at the Salem By-Pass and Market St. on Pacific Highway in Salem. Completion time, summer of 1959. Plans have been announced for construction of a drive-in restaurant, trailer court and service station to be erected by owner. E. H. Pedwell, on 6½ acres adjoining the motel property. DC 8-5

▲CHURCH— Salem, Ore.

Bids were opened August 5 by Englewood Evangelical United Brethren Church, 1783

Nebraska Ave., Salem, for construction of a 1,200 sq. ft. addition and remodeling of existing building, above address. Plans by Benjamin E. Cave, architect, 3240 Triangle Drive, Salem. BIDS: E. E. Batterman, 147 N. Commercial, Salem, $63,000; Mills Construction Co., 502 Kingwood Drive, Salem, $71,400; Robert D. Morrow, 3365 S. Commercial, Salem, $72,050. DC 8-9. Previous report 7-26

LABOR AND INDUSTRIES BUILDING— Salem, Ore.
(Estimated cost $3,000,000)

Approval has been made by the Capitol Planning Commission, Salem, of plans for the exterior of the proposed Labor and Industries Building to be erected on the Capitol Mall in Salem. The structure will occupy the site north of the state library, now occupied by Salem's First Presbyterian Church. The latter is being moved to a new location. Bids will probably be opened early in 1959.

Architect is Skidmore, Owings & Merrill, 2040 S.W. Jefferson St., Portland. Marble and bronze will be a feature of the new structure, in keeping with present Mall construction. DC 8-7. Previous report 3-8

★DUPLEX— Silver Lake, Ore.

Award to N. Chavis, Contractor, 526 E. Quimby, Bend, $15,500 by Lake County School District No. 14, Silver Lake, for construction of a duplex teacherage in Silver Lake. Bids were opened July 28.
DM 8-9. Previous report 7-17

COURTHOUSE— Vale, Ore.
(Estimated cost $500,000)

Bids will be called about September 1 by Malheur County Commissioners, Courthouse, Vale, on construction of two-story with partial basement, 23,000 sq. ft. courthouse on site of the existing structure, which will be razed. Plans by Roald, Schmeer & Harrington, architects, Portland Trust Bldg., Portland. DC 8-6. Previous report 6-11

WASHINGTON

CIVIC CENTER— Aberdeen, Wash.

The City Council, City Hall, Aberdeen, is considering extensive plans for a new civic center. A committee headed by John Yearout, of the Aberdeen Chamber of Commerce, has asked the Council to consider construction of a civic center which would involve building a new city hall, reconstructing the central fire station, installing a fire sub-station, building a combination auditorium-gymnasium and swimming pool, making playground improvements, and enlarging the city library. MH 8-1

HOUSING, SHOPPING CENTER— Bellevue, Wash.

Site clearing is underway by Jack Morris, Bellevue, so that a survey of grading and site preparation needs can be made by Earl Amick, owner, Bellevue, for proposed construction of a waterfront community on a 14-acre tract between Bellevue and Houghton, on Lake Washington. Stevens and Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, Ore., designed the project, which will include 185 residences, a shopping center, paved streets, sewer and water lines, bulkheads, covered moorage for 400 boats. PD 8-8

STUDENT UNION BUILDING— Bellingham, Wash.

Bid call tentatively set for August 18, with bid opening September 18, by Western Washington College of Education, Bellingham, for construction of the four-story, 82'x117' student union building in the 500 block on High St., across from the knoll in front of the Old Main building in Bellingham. Plans by Bassetti & Morse, architects, Tower Bldg., Seattle.

Roof will be series of flat gables, built-up roofing, rigid insulation in roof; reinforced concrete, pan joists, pre-stressed concrete beams; brick masonry, brick veneer exterior; aluminum sash, glass stopped in wood; aluminum entry doors; partitions of plaster on gypsum lath and steel stud; magnesite, terrazzo, oak, plastic rubber, vinyl asbestos tile flooring; ceramic tile wainscoting; suspended acoustical ceilings; hot air heating, multi-zone system; magnesite stairways; wood railing with steel supports. Plans include complete kitchen, utilizing existing equipment and adding new.
PD 8-12. Previous report 7-30

SCIENCE BUILDING— Bellingham, Wash.
(Estimated cost $2,000,000)

Bid call tentatively set for August 18, with bid opening September 18, by Western Washington College of Education, Bellingham, for construction of the 142'x241', reinforced concrete, three-story plus partial fourth floor science building to be located behind the college library at High St. and Campus Drive in Bellingham. Separate contracts will be bid for general, mechanical, electrical work, and for movable laboratory equipment and furniture.

Above fourth floor will be a penthouse and walking deck for class work, and a mounting deck for instruments. Building will include general sciences rooms, classrooms, laboratories and faculty offices. Plans by Paul Thiry, architect, 800 Columbia St., Seattle.

Flat roof, built-up roofing over rigid insulation; columns and pan joist system; Mosai exterior; aluminum awning type windows; louvres on east and west exposures; concrete interior walls, and plaster partitions over steel studs; concrete floors; finished concrete flooring; suspended ceilings; steam heating from central system, convectors, unit heaters, central ventilating system. Fixed laboratory equipment included in general contract. Plans include mechanical rooms on first and fourth floors, two greenhouses on roof, plant room on third floor, science library and museum, planetarium, aquarium, a seismograph and four tiered lecture rooms with 75-100 capacity each. PD 8-12. Previous report 7-25

STORE BUILDING— Bothell, Wash.

Working drawings will soon be started by T. M. Carstensen Co., designers, Alaska Bldg., Seattle, for a 41'x250' concrete block or tilt-up concrete structure to house five businesses, to be located on land now occupied by Keeney Lumber Co., in Bothell. Plans include a 41'x256' asphaltic concrete parking lot. PD 8-12. Previous report 6-3

●SENIOR HIGH SCHOOL ADDITION (General Contract)— Bothell, Wash.

Bids will be opened 2 p.m., August 19, for the second time by Bothell School District No. 46, Box 128, Bothell, for general contract for construction of a three-building, 23,814 sq. ft. addition to existing Senior High School in Bothell. Plans and specifications have been revised, with deletion of prestressed concrete beams and concrete roof slab, substitution of laminated beams and wood decking, revision of skylight details and miscellaneous smaller items. Plans with Ralph Burkhard, architect, 2129 S.W. 152nd, Seattle. $50 deposit. Low bid on general contract at August 4 bid opening was from Noel Construction Co., 11014 Main, Bellevue, $253,745.
PD 8-13. Previous report 8-6

CITY BUILDING EXPANSION, REMODELING— Bremerton, Wash.

Preliminary plans are underway by B. Dudley Stuart, architect, 712 Lloyd Bldg., Seattle, for expansion of city hall, and adjacent buildings, into new city administrative offices for City Council, City Hall, Bremerton. The old Burks Bldg., Washington and 4th streets, across alley from existing City Hall, will be razed, and a parking garage constructed in basement space. Roof of garage will be street level, and plans include landscaping this area. The old Harlow Bldg., adjacent to City Hall will be almost completely demolished, leaving only exterior walls, floors, and supporting columns. This structure will be incorporated with existing city hall into a two-story building to house City administrative offices. First floor of remodeled building will provide space for administrative offices, public works and utilities department, police department, police court and traffic division facilities. Second floor will be for city council chambers and city engineering offices. Funds for site surveys, structural examination of buildings and architects fee for preliminary plans were provided by U. S. Housing and Home Finance Agency. Approval of $350,000 general obligation bonds will be voted in November election. PD 7-31

▲ROOF REPAIRS— Bremerton, Wash.

Seven bids received by 13th Naval District, Bldg. 250, U. S. Naval Station, Seattle, for removing existing roof structures, skylights and ornamental cornices and re-roofing and replacing sheet metal work at Bldg. 66, Puget Sound Naval Shipyard, Bremerton; Spec. No. 18386/58. Bids opened August 7. LOW BIDS: Commercial Builders, 114 Shore Drive, Bremerton, $42,450; Wayne Construction Co., 3810 Stone Way, Seattle, $42,965. HI BID: Holaday & Edworthy, 6240 S. Tacoma Way, Tacoma, $64,910. Government estimate $43,000. PD 8-8. Previous report 7-29

STORE— Camas, Wash.

Construction underway for a store building to replace the McKever building on N.E. Adams between N.E. 3rd and 4th streets, in Camas, by Dr. A. E. Bird, owner, 403 N.E. 5th, Camas. The old McKever building will be razed. MH 8-12

HIGH SCHOOL— Cashmere, Wash.
(Estimated cost $600,000)

Purchase has been completed by Cashmere School District No. 122, Cashmere, of a site for the proposed new high school. The property is located adjacent to the ball park and covers nine acres. An additional five acres, including the park, has been bought by the board for use as athletic and recreational purposes.

The new building will face on Pioneer Ave. and will be bounded by Tigner Road on one side. Completion has been set for the 1959-1960 school year. Plans by Alvin S. Erickson, architect, Central Bldg., Wenatchee, call for a building to house 15 teaching stations and a gymnasium.

Bids will be called on construction of the school, in the early fall.
DC 8-12. Previous report 3-29

SCHOOLS— Chehalis, Wash.

School bonds totaling $408,000 will be voted on by voters November 4 for approval of a $210,000 classroom and district office addition to Chehalis high school and for $198,000 for building a Chehalis high school outdoor athletic plant and for improving the athletic plant at Cascade grade school, including extensive blacktopping, for Chehalis School District No. 302, Chester V. Rhodes, superintendent, R. E. Bennett Bldg., Chehalis. MH 8-13

POSTOFFICE— Chelan, Wash.

Tentative plans have been recommended by Post Office Department for a 160'x100' area, and a 5,320 sq. ft. building, for the proposed new postoffice at Johnson and Emerson streets in Chelan. It is hoped that bids will be called before the first of the year on the construction contract. Chelan postmaster is John Crow.
DM 8-6. Previous report 7-16

SWIMMING POOL— Cheney, Wash.

An architect will be retained soon by City Council, City Hall, Cheney, to prepare drawings for a city swimming pool. Nolan Brown, mayor, hopes that the authorization for such a pool can be placed on the November 4 ballot. MH 8-6

ELEMENTARY SCHOOL— Cheney, Wash.

An election will be held September 9 by Cheney School District on a proposition to raise local funds to match $442,341 in Federal money which has been conditionally alloted to Cheney for construction of an elementary school near the Geiger Field housing project. The school board says annexation of two areas, Four Lakes and Glenora, must be delayed in consideration until their September election. MH 8-13

HIGH SCHOOL AND GYM— Cle Elum, Wash.

Cle Elum School District 104, Cle Elum, has retained William Arild Johnson & Associates, architects, 3506 Broadway, Everett.

to prepare plans for a high school and gymnasium in Cle Elum. MH 8-7

SCHOOL CONSTRUCTION— College Place, Wash.

An election will be held September 9 by College Place Public School Board, 31 S.E. Ash, College Place, (Walla Walla) to raise funds for completing the work on the $100,-800 wing to the elementary school. Approval of the issue was given at the April election, but the action was later called invalid due to technical reasons. Construction by Elmer Holsten, general contractor, 309 E. Main, Walla Walla, is at a standstill until after the September election. MH 8-7

BUILDINGS, UTILITIES FOR RAILWAY YARD— Eagle Gorge, Kanaskat, Wash.

Bids will be opened late in August, approximately the 28th, by Corps of Engineers, Seattle District, 1519 S. Alaskan Way, Seattle, for construction of brick station building, frame scale house, unloading platform and utilities and relocation of 17 small buildings at Kanaskat; construction of metal station building, operators' quarters, pumphouse and utilities at Eagle Gorge; CIVENG-45-108-59-7. Completion time 360 calendar days.

Kanaskat—Construction of 20'x56' brick station building; 7'x20' frame scale house; timber unloading platform complete with utilities, grading, curbing, gravel surfacing, asphaltic concrete surfacing; relocation of 17 small buildings and facilities.

Eagle Gorge—Construct prefabricated metal 16'x29' station building; 20'x28' operators' quarters; 8'x11' pump house complete with utilities, concrete curbing, gravel surfacing. LB 8-9

GRADE SCHOOL— Edmonds, Wash.

Architect Theo Damm, 516 James, Seattle, has been retained by Edmonds School District 15, Harold Silvernail, superintendent, Edmonds, for a new elementary school at Upper Meadowdale Beverly Park Road. HH 8-7

SAFEWAY STORE— Ellensburg, Wash.
(Estimated cost $425,000)

Contracts are in process of being signed by Safeway Stores, 5th and Pine streets, on construction of a 100'x118' store on Ruby between 5th and 4th. DC 8-7

★STORE— Ellensburg, Wash.

Award to William Yeaman, 601 S. 1st St., Yakima, no amount released, by Safeway Stores, Inc., 1200 Westlake Avenue N., Seattle, for construction of a new safeway store building at Ellensburg. Plans by Harold W. Hall, 402 Commerce Bldg., Everett. Bids opened July 11.
LB 8-8. Previous report 7-11

HIGH SCHOOL— Enumclaw, Wash.

Enumclaw School District 216, 2222 Porter St., Enumclaw, has requested the board chairman, Floyd F. West, to recommend selection of an architect for a proposed high school building which it is planning to build on a 153 acre plot of school property south of Enumclaw. MH 8-7

★HEATING, VENTILATING, AIR CONDITIONING— Ephrata, Wash.

Awards announced by Grant County Public Utility District No. 2, Ephrata, for supplying heating, ventilating and air-conditioning equipment for Priest Rapids hydroelectric project. Bids opened August 2. AWARDS: General Equipment Co., Hyde Bldg., Spokane, $17,630 (air washers), $16,-778 (centrifugal fans), $3,700 (ventilating louvers); J. R. Ruddock & Associates, Chicago, Ill., $13,446 (duct heaters); Graybar Electric Co., W. 1033 Gardner, Spokane, $38,-550 (heating, ventilating controls).
LB 8-8. Previous report 7-29

SCHOOLS— Evergreen, Wash.

A recheck of election statistics showed that the $200,000 bond issue for schools in Evergreen School District No. 114, Marvin Schafer, Route 1, Box 2725, Vancouver, did not pass. An earlier check indicated approval. Legally, no new election is possible concerning the bond issue until January 1, 1959. MH 8-12

SWIMMING POOL— Fairchild, Wash.

Fairchild School District No. 334, Spokane County, Fairfield, and Spokane County Park System are investigating the possibility of joining in construction of a swimming pool at Fairfield. MH 8-12

★ELECTRICAL SERVICE MODIFICATION— Fairchild AFB, Wash.

Award to Spokane Electric Co., E. 601 Trent Ave., Spokane, $7,364, by U.S. Air Force, Fairchild AFB, for installation of complete wiring system (Proj. A) and modification of street lighting system (Proj. B), Garden Springs Housing Units, Fairchild AFB; Inv. No. 58-135. Bids opened June 24.
LB 8-8. Previous report 6-12

▲REMODEL CAFETERIA— Geiger AFB, Wash.

Bids received by U.S. Air Force, procurement office, Geiger AFB, for remodeling Bldg. No. 515, BX Cafeteria at Geiger Air Force Base; IFB 45-614-59-2. Bids opened August 8. LOW BIDS: A.A.A. Construction Co., 739 N. Helena, $21,164; Bording & Cook, 14103 E. Broadway, $22,000; Hefte Construction Co., 11607 E. Trent, $22,398. All of Spokane. LL 8-12. Previous report 7-15

▲MECHANICAL REPAIR— Geiger AFB, Wash.

Bids received by U. S. Air Force, procurement office, Geiger AFB, for mechanical repair of Bldg. 306 at Geiger Air Force Base; IFB 45-614-59-6. Bids opened August 6. LOW BIDS: Adams & Little, N. 1329 Howard, $6,-225; McClintock & Turck, N. 3812 Division, $6,480; Clarence Weston, 2815 E. Sprague, $6,-564. All of Spokane.
LL 8-9. Previous report 7-15

▲GUEST HOUSE— Geiger AFB, Wash.

Bids received by U. S. Air Force procurement office, Geiger AFB, for remodeling Bldg. No. 306 into four units one 3-bedroom and three two-bedroom, and new entrance to building for a guest house, Geiger Air Force Base; IFB 45-614-59-4. Bids opened August 7. LOW BIDS: P & B, Inc., E. 8903 Main, $24,005; Stevens Construction Co., 11904 E. 19th, $24,134; Warner & Brown, Inc., 2904 N. Madelia, $24,258. All of Spokane.
LL 8-9. Previous report 7-17

▲REPAIR BUILDINGS—Geiger AFB, Wash.

Bids received by U.S. Air Force, procurement office, Geiger AFB, for repair of exteriors of six buildings, Geiger Air Force Base; IFB 45-614-59-3. Bids opened August 8. LOW BIDS: B & G Construction Co., E. 964 13th, $13,502; Federal Construction Co., E. 3420 Sprague, $13,439; A.A.A. Construction Co., 739 N. Helena, $14,927. All of Spokane. LL 8-12. Previous report 7-15

■HANGAR PROTECTION— Geiger AFB, Wash.

Planholders announced on alert hangar protection at Geiger Air Force Base, ENG-45-108-59-8, on which bids will be opened 2 p.m., P.S.T., August 28 by Corps of Engineers, 1519 S. Alaskan Way, Seattle. Contract involves construction of 70 sq. ft. masonry unit guard house with concrete floor built-up roofing with insulation; chain link fencing with electrically operated sliding gate; asphaltic concrete entrance road, culverts; exterior electrical work; site grading; relocation of existing sentry box at Geiger AFB.

Planholders: William L. Hilton Co., E. 41 Gray Ave., Spokane; Edward L. Kolbar, E. 10821 Valley Way, Spokane; Northwestern Construction of Wash., Inc., Box 1135, Spokane; Purvis Construction Co., Box 64, Yardley; Sceva Construction Co. Inc., N. 2928 Madelia, Spokane; Stevens Construction Co., E. 11904 19th, Opportunity.
DM 8-13. Previous report 8-8

●■BUILDING RENOVATIONS— Geiger AFB, Wash.

Bids will be opened 2:30 p.m., September 4, by U.S. Air Force, procurement office, Geiger AFB, for renovating and maintaining exteriors of Bldgs. 1378 and 403, Geiger Air Force Base; IFB 45-614-59-15. Plans w above office. All exterior walls shall covered with 30' felt and asbestos shing aluminum placed on corners; paint on posed wooden and metal surfaces; alumin drip caps placed over windows, doors other openings; and other exterior work.

Planholders: Warner & Brown, 2904 Madelia; A. J. Popp Construction Co., 2710 Garland; Edward L. Kolbar, E. 10 Valleyway; Stevens Construction Co., 11 E. 19th Ave., Opportunity; Federal Constru tion Co., E. 3420 Sprague; Timberlb Bui ing Distributors, Inc., E. 3919 Trent; Bord & Cook Construction Co., E. 14103 Broa way; Hefte Construction Co., E. 11607, Tre William L. Hilton Co., E. 41 Gray; P & Inc., E. 8903 Main; Inland Roofing & Supp 5528 E. Sprague. All of Spokane unle noted. LL 8-

SHOPPING CENTER— George, Wash.
(Estimated cost $100,000)

Construction will start late in August by Charles Brown, builder and promoter of George, Wash., on a 200'x225', concrete block, shopping center in the center of town. Building permit was granted by Grant County Commissioners earlier this month. Completion time mid-December.
DC 8-15

HOSPITAL— Goldendale, Wash.
(Estimated cost $62,000)

Bids will be called early in January by Klickitat Valley Hospital board of directors, Goldendale, for construction of a 13-bed annex (including six-bed pediatric ward) to the existing hospital in Goldendale. Architect is Charles G. Davis, 2035 S.W. 58th, Portland. Plans call for brick veneer on exterior; frame interior; asphalt tile flooring; extensions of existing heating plant.
DM 8-1. Previous report 7-18

ELEMENTARY SCHOOL—Goldendale, Wash.

Official action is expected soon by Goldendale School District 404, Goldendale, on a proposal to place on the November ballot the issue of a special levy for purchase of an eight-acre site for an elementary school. MH 8-7

SCHOOL CONSTRUCTION— Granite Falls, Wash.

A special 12-mill levy for school building repairs and supplies will be voted upon at the September primary election in Granite Falls School District No. 332. Voters defeated in March a special levy for school construction. DC 8-6. Previous report 3-13

■ELEMENTARY SCHOOL— Issaquah, Wash.

Planholders announced for construction of the 12-classroom, two-building, Sunset Elementary School, on S.S.H. 2D (west side of Lake Sammamish), approximately ¼ mi. north of U.S. Highway No. 10 (Sunset Highway). Bids will be opened 8 p.m., August 26, by Issaquah School District No. 411, Box 746, Issaquah. Plans with Young, Richardson & Carleton, architects, Central Bldg., Seattle.

Planholders—GENERAL: O. B. Daniels & Son, 2271 Sunset Highway, Mercer Island; Korsmo Bros., 5944 Lake Grove Ave. S.W., Tacoma; Vaux Construction Co., 127 State St., Kirkland; Dahlgren Construction Co., 1700 21st S., Seattle; Puget Construction Co., 1811 Bush Place, Seattle; Wick Construction Co., 720 N. 35th, Seattle; Roxbury Construction Co., 616 Mercer St., Seattle; Herbert U. Taylor, 11239 Arroyo Beach Place S.W., Seattle; A. G. Homann, Box 38, Lacey; Livers Brothers, 3223 E. 123rd, Seattle; Olson Construction Co., 3500 E. 65th, Seattle; Baugh Construction Co., 922 Poplar Place, Seattle.
PD 8-13. Previous report 8-8

▲METHODIST CHURCH— Kahlotus, Wash.

Eight bids received and taken under advisement by Community Methodist Church Building Committee in Kahlotus, for construction of a 29,000 sq. ft. one-story frame addition to and remodeling of present Methodist Church building in Kahlotus. Plans by Eddy, Carlson & James, architects, 1205 N. Washington, Spokane. Bids opened August 6.

BIDS: Purvis Construction Co., Box 64, Yardley, $51,310; Fairbanks Construction Co., Harold Bldg., Moses Lake, $62,868; C & B Builders, Connell, $65,528; Helge Sather, N. 4507 Lincoln, Spokane, $66,945; Yager Construction Co., 132 A St. S.E., Ephrata, $68,900; Elvrum Construction Co., 316 N. 12th, Pasco, $69,105; Raymond J. Britton, Box 667, Richland, $72,804; Sceva Construction Co., N. 2608 Madelia, Spokane, $77,332.
LL 8-9. Previous report 8-5

★**SCHOOL REMODELING—** **Kennewick, Wash.**

Award to Ray Ashcraft, Grandview $10,134, by Kennewick School District No. 17, 500 S. Dayton, Kenewick for remodeling the home economics foods laboratory at Kennewick Park Junior High School in Kennewick. Engineer's estimate was under $9,000. Completion time 42 calendar days.

Other bids: Charles C. Dunham, 2437 W. Albany St., Kennewick, $10,525; Smoot Bros., 215 S. 26th, Yakima, $11,147; Lux & Mackner Construction Co., 1332 W. Irving, Pasco, $11,289; Cherf Bros. Inc. and Sandkay Contractors, Inc., Box 938, Ephrata, $11,500; Joe E. Venne, 407 12th, Sunnyside, $11,614; Raymond J. Britton, Box 667, Richland, $12,000.
DC 8-9

BOWLING ALLEY— **Lacey, Wash.**
(Estimated cost $80,000)

Construction has been started by Warner Construction Co., Thompson Place, Lacey, on a 16-lane, 150'x96' concrete block bowling alley near the intersection of Slater-Kinney Road and Old Tacoma Highway for Chic and Moe Loveless. Completion time November 1.
LC 8-12

JUNIOR HIGH, TULALIP ELEMENTARY SCHOOL— **Marysville, Wash.**

Marysville School District No. 25, Marysville, has retained Preston, Thorgrimson & Horowitz, attorneys, Northern Life Tower, Seattle, to prepare necessary proceedings to call for an election on the proposition of issuing $300,000 in general obligation bonds. If approved, these funds would be for construction of a new junior high school and for a new Tulalip Elementary School.
HH 8-6

ELEMENTARY SCHOOL—Marysville, Wash.

Preliminary plans have been approved by Marysville School District No. 25, Marysville, for a new elementary school at the Tulalip Reservation. Plans are being prepared by Harry E. Brown, architect, and F. Edward Brown, associate, Commerce Bldg., Everett. The preliminary drawings will go to the state for approval.
HH 8-6

●**REPAIR ROOF—** **Medical Lake, Wash.**

Bid opening of August 6 extended to 3 p.m., August 15, by Department of General Administration, 218 General Administration Bldg., Olympia, for renewal and/or repair of and coating of approximately 1,331 squares of roof at Eastern State Hospital, Medical Lake.
DE-8-9. Previous report 7-29

ELEMENTARY SCHOOL—Montesano, Wash.

An election will be held September 9 by Montesano School District 124, Grays Harbor County, 418 Spruce E., Montesano, to use some of the $401,000 bonding capacity of itself and Olympic View district to authorize construction of a 14-room, 33,083 sq. ft. elementary building on Wheeler Field. Plans are being prepared on the new school by Edward Mills, architect, 308 S. Tacoma, Tacoma.

Original school plans called for construction of a $648,000 high school. These have been abandoned. Under revised drawings on the originally planned high school, the district will make an attempt to get an anticipated $122,719 for remodeling the Montesano High School building.
MH 8-6

ELEMENTARY SCHOOL— **Mountlake Terrace, Wash.**

Bids will be called the early part of September by Edmonds School District No. 15, Box 308, Edmonds, for construction of a 20-room elementary school at Mountlake Terrace. Working drawings have been completed by Waldron & Dietz, architects, 215 8th Ave. N., Seattle. Bid call will follow state approval of plans.

The six-building school will be constructed in a cluster plan. Concrete slab-on-grade; pumice block exterior walls (alternate, SCR brick), bead glazing on exterior; glued laminated beams, fiberboard insulation in roof; laminated roof; aluminum sash; wood stud and plaster pumice block partitions; asphalt tile, quarry tile (kitchen), mosaic tile (restrooms) flooring; plastic sky-domes, sawtooth skylights; oil-fired forced warm air heating, central boiler; interior court and entrance drives surfaced with asphaltic concrete.
PD 8-8. Previous report 8-7

HIGH SCHOOL— **Moxee, Wash.**

Preliminary drawings underway by Thomas F. Hargis, Jr., architect, and Clarke Goldsworthy, associate, Miller Bldg., Yakima, on remodeling and redecorating for the existing Central School building at Moxee, and on a new unit which will be used as the high school for Moxee School District No. 90, Yakima County. School district offices are in Central Bldg., Yakima.

Plans call for construction of a new unit to house gymnasium, locker rooms, shop, science roms, home economics rooms. The existing school remodeling and redecorating will not involve major changes.
IG 7-31

SCHOOL ALTERATIONS— **Moxee City, Wash.**

Preliminary drawings have been approved by State Board of Education and working drawings have been started for construction of an addition to the existing elementary school at Terrace Heights in the Moxee School District No. 90. School District offices are located in Central Bldg., Yakima. Plans by Thomas F. Hargis, Jr., architect, and Clark Goldsworthy, associate, Miller Bldg., Yakima.

Structure will have eight classrooms, multipurpose room, lockers and showers, lavatory facilities. Exterior of building to be brick and concrete; frame to be frame

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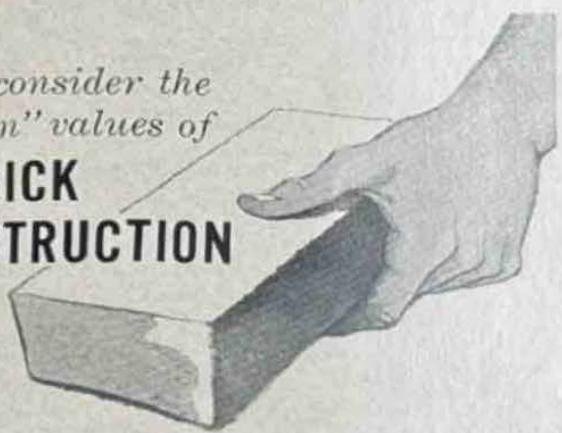

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and plaster and SCR brick; ceilings of acoustical tile; locker rooms of glazed concrete block; floors of concrete slab-on-grade with vinyl tile covering; roof to be built-up with gravel surface; windows of porcelain enameled steel; heating with oil-fired, hot water system. IG 7-31. Previous report 3-14

■ HOUSING— Naselle AFS, Wash.

Planholders announced for construction of 27 housing units at Naselle Air Force Station; Inv. 59-2. Bids will be opened 1:30 p.m., August 20, by U.S. Air Force, procurement office, Bldg. 524, McChord AFB. Four-bedroom single units will cost $15,000; three-bedroom duplexes $27,000, and three-bedroom fourplexes $46,000.

Planholders: Constructor's, Inc., 7906 Leschi Road S.W., Tacoma; Hebb & Narodick, 4225 23rd W., Seattle; Levage Construction Co., Box 655, Parkland; E. H. Moore, 693 Mission, San Francisco, Calif.; Thompson & Wysong, 7535 N.E. Glisan, Portland, Ore.; Meyers & Major, Box 146, Vancouver; L. L. Leffert, 2757 Magnolia, Longview; Andy Johnson, 519 Simpson, Aberdeen; A. G. Homann, Box 38, Lacey; Thompson & Georgeson, Box 2106, Portland, Ore.; Woodard Construction Co., 2568 S. Steel, Tacoma; E. Goettling, 2921 S. J, Tacoma; Abrahamsen Co., 1062 Marine Drive, Astoria, Ore.; Absher Construction Co., 1109 25th, Puyallup; Mason & Robinson Builders, Box 7636, Portland, Ore.; Del Guzzi Construction Co., Box 591, Port Angeles; Beacon Construction Co., of Massachuetts, 102 Hano, Boston, Mass.

LC 8-9. Previous report 7-11

SCHOOL— Opportunity, Wash.

Site has been approved by Central Valley School District No. 356, School Board, Pines Road, Opportunity, for an 18-room elementary classroom school at 23rd and Pines, Opportunity. MH 8-6

★JUNIOR HIGH SCHOOL— Opportunity, Wash.

Awards announced by Central Valley School District No. 56, N. 607 Pines Road, Opportunity, for construction of the 62,148 sq. ft. frame and masonry Bowdish Junior High School building consisting of 22 teaching stations, 18 general classrooms, arts and crafts room, science classroom, two home economics classrooms, general shop, mechanical drawing room, library unit, office unit, kitchen, health room, teacher's room, workroom, two conference rooms; six toilet rooms, heating plants and storage space, in Opportunity. Plans by Victor Louis Wulff, architect, 1526 W. Riverside, Spokane. AWARDS—GENERAL: Pete Young, 1211 E. Columbia, Spokane, $455,600. MECHANICAL: Arnold Jeffers, N. 1309 Ash, Spokane, $180,827. ELECTRICAL: Spokane Electric Co., E. 601 Trent, Spokane, $63,182. Awards will have to be confirmed by the state.

LB 8-8. Previous report 7-31

●MODIFY BUILDING— Paine AFB, Wash.

Bids will be opened 2 p.m., P.S.T., August 21 by U. S. Air Force, procurement office, Paine Air Force Base, for modifying existing dayroom in Barracks 102 at the base, by installing 56' of partitions, new floor tile, acoustical ceiling tile; painting interior; repairing defective lighting; Inv. No. 45-602-59-2. Plans with above office.

Planholders: Frank Damson, Route 2, Everett; Red-E Construction Co., 6056 37th Ave. N.E., Seattle; Jack Fast, 22 Etruria St., Seattle; Metropolitan Construction Co., 1008 Broadway, Everett; Robert X. Ayer, 1332 Broadway, Everett; Shaffer Construction Co., 3409 Everett Ave., Everett; Dale M. Madden, 3010 E. 163rd, Seattle; Whitehorse Engineering Co., 14213 51st St., Seattle; Atherton Construction Co., 1318 N. 128th, Seattle; Hallidie Builders, 210 Hudson St., Seattle; Sanford Wright, 2929½ Wetmore, Everett; Dwight Pack Construction Co., 10300 45th N.E., Seattle; J. McCarthy, 17860 Ballinger Way, Seattle; Wayne Construction Co., 3810 Stoneway, Seattle. HH 8-9

■ ALERT HANGAR PROTECTION— Paine AFB, Wash.

Planholders announced for alert hangar protection including construction of wood frame sentry box on skids (16 sq. ft.) with built-up roofing; gate house (70 sq ft.) with concrete floor and roof slabs, built-up roofing; 790' chain link fence with electrically operated sliding gate; exterior electric work including floor lights on existing alert hangar; site grading and seeding; Paine Air Force Base; ENG-45-108-59-7. Bids will be opened about August 28 (tentative) by Corps of Engineers, Seattle District, 1519 S. Alaskan Way, Seattle.

Planholders: Burfitt Construction Co., 1445 W. 56th, Seattle; Foster-Bray Co., 2410 1st Ave. S., Seattle; Lindbrook Construction Co., 11738 35th N.E., Seattle; Dale M. Madden, general contractor, 3010 E. 163rd, Seattle; John F. Norton, 710 Lakeside S., Seattle; Olson Industries, Inc., 3500 E. 65th, Seattle; Red-E Construction Co., 6056 37th Ave. N.E., Seattle; United Construction Co., 3627 Findley St., Seattle; Willar Construction Co., 9709 Greenwood Ave., Seattle; Venne Beauchamp & Co., Box 637, Everett; Edmonds Construction Co., 106 Main St., Edmonds; Like Construction Co., 1801 35th St., Bellingham; Metropolitan Construction Co., 1008 Broadway, Everett; Rich & Son, Route 1, Hillsboro, Ore.; Roy E. Rudd, Box 835, Everett.

Colorado Fuel & Iron Corp., 3434 2nd Ave. S., Seattle; Federal Pacific Electric Co., 1415 Elliott Ave. W., Seattle; Fellstrom Electric Co., 2211 9th Ave., Seattle; Graybar Electric Co., Inc., King & Occidental (Box 3127), Seattle; Kinura Landscaping Co., 854 Poplar Ave., Seattle; McRoy Hoverter, 1212 1st Ave. S., Seattle; Necco Electric Contractors, Inc., 1550 1st Ave. S., Seattle; Northwest Associates, Inc., 531 1st Ave. W., Seattle; San Jose Steel Co., Inc., 131 W. Massachusetts St., Seattle; Veca Electric, 519 Valley St., Seattle; Volcano Incinerators, 2700 4th Ave., Seattle; R. Yorozu Gardening Co., 13335 32nd Ave. S., Seattle; Bar Ray Products, 209 25th St., Brooklyn, N.Y.; Electric Power Door Co., Inc., 2127 E. Lake St., Minneapolis, Minn.; Ewing Electric Inc., 535 Main St., Edmonds; G. S. Electric, 3010 67th S.E., Mercer Island; Olson Electric Co., 710 W. 8th St., Vancouver; Spragues, Inc., Box 458, Lynnwood. LB 8-13. Previous report 7-25

RESIDENCES— Pasco, Wash.

Five Pasco and Kennewick building contractors have signed up as Live Better Electrically Medallion Home buildings under the national Medallion Home program which is being sponsored locally by Benton and Franklin County Public Utility Districts. The first home to qualify for a Gold Medallion, hallmark of excellence, for residential electrical wiring, appliances and lighting, has been completed by the John Garrison Construction Co., Pasco, in the Riverview area west of Pasco.

Other contractors who have signed up under the program are Walter Edwards, Elmer Sundvik and Ree McReynolds of Kennewick; Miller & Stork of Pasco.

DC 8-5

CHURCH— Pullman, Wash.

A site, 175'x150' at the south end of High street, near Rossiter, on Pioneer Heights, has been selected by Church of the Nazarene, Rev. Richard Ivester, pastor, Pullman, for a new building. The congregation had previously planned to raze its present frame building and rebuild on Paradise street, but has decided to change its building plans. The present building and land will be put up for sale, and further building plans will depend on this sale. MH 8-12

★LABORATORY— Purdy, Wash.

Award to Bona Fide Builders, 2430 E. 11th, Tacoma, $8,090 by Department of General Administration, 218 General Administration Bldg., Olympia, for completion of the shellfish laboratory at Washington State Department of Health in Purdy.

DE 8-9. Previous report 8-1

HOSPITAL— Puyallup, Wash.

Final approval has been given of $50,000 Hill-Burton grant for completion of facilities at Puyallup's Good Samaritan Hospital. The building will be faced with brick, equipment purchased and a parking area laid out, with the federal funds. When completed, the new hospital will have 73 beds. DC 8-12

LIBRARY— Puyallup, Wash.

(Estimated cost $100,000 to $150,000)

Preliminary estimates are being prepared by Robert Billsbrough Price, architect, 2[illegible] A. Tacoma, for alternate plans to remodel or to replace existing library in Puyallup. A request for millage to finance project may be placed on November election ballot. MH 7-1

SCHOOL CONSTRUCTION— Renton, Wash.

Bond issue for $3,500,000, will be placed on November ballot, by Renton School District No. 403, 1525 4th Ave. N., Renton, for a construction program which may include a 2[illegible] room elementary school in Honeydew area, an elementary school in Spring Glen area, purchase of a site for an elementary school in Earlington area, and a future addition to the A. W. Dimmitt Junior High School, which will soon be under construction at 80th S. and S. 123rd, Renton. PD 8-1

★JUNIOR HIGH SCHOOL— Renton, Wash.

Awards recommended by Renton School District No. 403, 1525 4th Ave. N., Renton, for construction of A. W. Dimmitt Junior High School at 80th Ave. S. and S. 123rd St., Renton. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle. AWARDS—GENERAL: George E. Teufel Co., 4426 White-Henry-Stuart Bldg., $651,478. MECHANICAL: Navarre Plumbing and Heating, 3839 Stone Way, $222,278. ELECTRICAL: Hooper Electric Co., 215 Marion St., $65,975. Completion time August 1, 1959. No alternates were accepted for library completion or a physical education building, but school district plans to put a request on November 4 ballot that would cover these items. MH 8-13. Previous report 7-31

▲DOOR MONITORING, ALARM SYSTEM— Richland, Wash.

One bid received, that of Selo Electric Co., Inc., 1050 N. 38th, Seattle, $11,800, by Atomic Energy Commission, Box 550, Richland, for completion of design, fabrication, installation and connection of a door monitoring and alarm system for a plutonium fabrication pilot plant facility in the 300 area at Hanford Works, Richland. Bids opened August 7. LB 8-12. Previous report 7-12

●FLOOR TILE— Seattle, Wash.

Bids will be opened 9:30 a.m., August 25, by King County Commissioners, 402 County-City Bldg., Seattle, for furnishing 9,000 sq. ft. asphalt floor tile, size 12"x12"x⅛" thickness, to match existing flooring, 2,000 sq. ft. border tile and eight 5's asphalt tile cement. Samples can be seen at Firland Sanatorium, 1704 E. 150th, Seattle. Bid bond 5%. LB 8-12

MEDICAL CLINIC, APARTMENT— Seattle, Wash.

Preliminary plans are underway by Johnston & Campanella, architects, 213 Wells St., Renton, for a four-unit medical clinic and apartment building on 17th and Jefferson, Seattle. Structure will have two or more stories. PD 8-1

▲BANK BUILDING— Seattle, Wash.

Six general, eight mechanical and seven electrical bids received by University Federal Savings and Loan Association, 4345 Brooklyn, Seattle, for construction of a one-story, 4,000 sq. ft. bank building at 1116 E. 45th, Seattle. Bids opened August 8. Plans by Decker, Christenson & Kitchin, architects, 1411 Fourth Avenue Bldg., Seattle. GENERAL—LOW BID: Baugh Construction Co., 922 Poplar Place, $165,890. OTHER BIDS: Puget Construction Co., 1811 Bush Place, $169,417; Henrik Valle, Box 9063, Queen Anne Station, $175,168; Wick Construction Co., 720 N. 35th, $178,700; Riley Pleas, Inc., 522 19th N., $189,000; Hugh S. Ferguson, 1927 1st Ave. S., $196,485. MECHANICAL—LOW BID: W. E. Beggs, 234 9th N., $45,878. OTHER BIDS: L. G. Massart Plumbing and Heating Co., 4501 9th N.W., $48,336; Navarre Plumbing and Heating Co., Inc., 3839 Stone Way, $49,251; University Plumbing and Heating, 3941 University Way, $49,870; Ashwell-Twist Co., 967 Thomas, $50,697; Percy Thorn, 24 Etruria, $51,563; W. A. Botting Co., 5625 University Way, $52,083; The Ballard Co., 1537 Ballard Way, $52,190. ELECTRICAL—LOW BIDS: Van S. Mc-

Kenny, 104 Wall, $17,378. OTHER BIDS: Vecs Electric, 521 Valley, $17,858; Donald W. Close, 2931 13th S.W., $18,109; City Electric and Fixture Co., 433 8th N., $18,613; Carlsen-Collingwood, 8945 Aurora, $18,789; Lindberg Electric Co., 4600 Leary Way, $19,-388; Industrial Electric Co., 1838 Yale, $22,-179. Of Seattle. PD 8-12. Previous report 7-26

RETIREMENT HOME ADDITION— Seattle, Wash.

(Estimated cost $500,000)

Preliminary drawings are underway by Edward Mahlum, architect, Lloyd Bldg., Seattle, for a nursing home addition to Columbia Conference Lutheran Home for the Aged, between 47th and 48th streets on Phinney. PD 8-1

RESIDENCE— Seattle, Wash.

Working drawings are underway by Ira E. Cummings, architect, 1123 E. John, Seattle, for a one-story and daylight basement, 3,200 sq. ft. residence on Harley Ave. near Commodore Way, in Fort Lawton area, Seattle, for Eugene McDonald, owner. Low-pitched built-up roof, fiberglass insulation, marble chip surface; partial stone veneer, rough-sawn cedar siding; aluminum sash; drywall partitions, plywood paneling; slate entry floor, vinyl tile, hardwood flooring, carpeting; two fireplaces; oil-fired warm air heating. PD 8-6. Previous report 7-5

RESIDENCE— Seattle, Wash.

Working drawings will be started soon by Ira E. Cummings, architect, 1123 E. John, Seattle, on a one-story and daylight basement, 3,400 sq. ft. residence on 47th S. and Angeline in Seward Park area, Seattle, for J. Leong, owner. Preliminary plans are to be approved before final plans can be started. PD 8-6. Previous report 7-5

● SHOP, OFFICE BUILDING— Seattle, Wash.

Bid opening extended from August 6 to an undetermined date to be announced soon by Campbell Neon, Inc., 325 5th N., Seattle, for construction of a two-story, no basement shop and office building at Fairview Ave. N. and E. Prospect, Seattle. Plans by Robert Shick, structural engineer, 3714 S.W. 108th, Seattle. PD 8-8. Previous report 8-2

★ CANDY MANUFACTURERS PLANT— Seattle, Wash.

Award to Hugh S. Ferguson, 1927 1st S., Seattle, $212,000 (basic, general contract), by Verneli-Thompson Candy Co., 1825 Westlake Ave. N., Seattle, for construction of a 42,000 sq. ft., three-story, no-basement, candy manufacturing plant adjacent to existing building, above address. Plans by W. R. Rounds & Associates, architects, 10300 N.E. 1st, Bellevue. Bids opened August 1. Award will be made on mechanical contract soon. LB 8-8. Previous report 8-5

★ APARTMENT— Seattle, Wash.

Sub-contract awards announced for construction of a 20-unit, 12,000 sq. ft., three-story apartment at 4230 12th N.E., Seattle, by McDonald & Hulbert, owners and builders, 120 Fairview Ave. N., Seattle. Plans by Donald N. McDonald & Associates, architects, 719 2nd Ave., Seattle. SUB-AWARDS: Hart Plumbing and Heating, Inc., 11555 27th N.E., Seattle, mechanical; Sound Electric Co., 120 Fairview Ave. N., Seattle, electrical; Joseph T. Ryerson & Son, Inc., 1200 4th Ave. S., Seattle, reinforcing steel. Awards on ceramic tile, window sash, millwork, glass, masonry, will be announced about mid-September. PD 8-8. Previous report 6-18

■ SACAJAWEA ELEMENTARY SCHOOL— Seattle, Wash.

Planholders announced on construction of 35,500 sq. ft., split-level, 15-classroom, Sacajawea Elementary School to be located at 20th N.E. and E. 96th St., Seattle. Bids will be opened 2 p.m., August 20, by Seattle School District No. 1, 815 4th Ave. N., Seattle. Plans by Waldron & Dietz, architects, 215 8th Ave. N., Seattle.

Planholders—GENERAL: B. F. Turnbull, Inc., 4351 Leary Way; Wick Construction Co., 720 N. 34th; Northern State Construction Co., 2833 26th W.; Dahlgren Construction Co., 1700 21st S.; H. Halvorson, Inc., 20054 Pacific Highway S.; Norge Construction Co., 5008 Admiral Way; Baugh Construction Co., 922 Poplar Place; Venne Beauchamp, Box 637, Everett. Of Seattle unless noted. DM 8-8. Previous report 8-1

LDS CHURCH— Seattle, Wash.

Working drawings are nearly completed by Clifford Dobson, architect, 4115 University Way, Seattle, for a one-story, 20,000 sq. ft. (approximately) church building at 142nd Ave. S. and Ambaum Road, for Church of Jesus Christ of Latter Day Saints, sixth and ninth wards. Central headquarters of the church in Salt Lake City, Utah, will review plans before a call for bids is made.

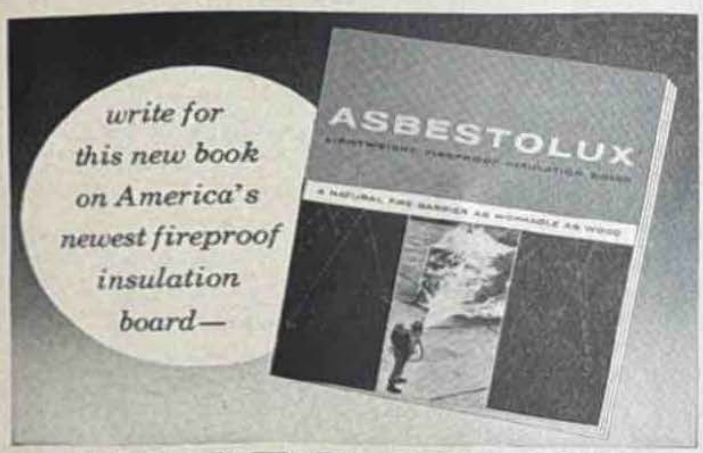
Pumice block, some mosaic stone, glued laminated structural arches and beams, cedar roof decking. Plans involve a chapel, recreational hall and classrooms in the building. PD 8-8. Previous report 11-8-57

RETAIL BUILDING— Seattle, Wash.

Bids will soon be called for the second time from original planholders by Seattle Art and Photo Supply Co., 359 Roy St., Seattle, for construction of an 18,000 sq. ft., two-story building of reinforced concrete and heavy timber, on northeast corner of 8th Ave. S. and Lane St., Seattle. Plans and specifications are being revised by Nickum, Lamont & Fey, architects and engineers, 71 Columbia St., Seattle. Bids were previously opened July 3 and subsequently rejected.

Select list of bidders: Baugh Construction Co., 922 Poplar Place; W. G. Clark Construction Co., 408 Aurora Ave.; H. E. Forsman, 3833 Stone Way; Strand, Inc., 1801 N. 34th; Brazier Construction Co., 309 Pontius; Veale Construction Co., 2nd and Cherry Bldg.; Hainsworth Construction Co., 3028 Western. All Seattle.

The original plans called for: no basement; flat built-up roof, 1" rigid insulation in roof; 2" t&g decking; exposed concrete exterior (alternate, 2" Mosaic on some exterior portions); steel sash; drywall partitions; resilient tile, ceramic tile flooring; hot water heating; asphaltic concrete park-



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ing area, with additional parking facilities on reinforced concrete roof deck.
PD 8-9. Previous report 7-5

●OIL BURNER, TANK— Seattle, Wash.

Bids will be opened 9:30 a.m., August 25, by King County Commissioners, 402 County City Bldg., Seattle, for one diesel oil burner with adequate B.T.U. output to convert stoker furnace at King County's White Center Fieldhouse, and furnish and install 16-barrel tank. Plans with King County Purchasing Department, 606 County City Bldg., Seattle. 5% bid bond. LB 8-9

RESIDENCE— Seattle, Wash.
(Estimated cost $15,000)

Preliminary drawings are underway by Ira E. Cummings, architect, 1123 E. John, Seattle, for a one-story and basement, 1,100 sq. ft. residence on 28th W., on east slope of Magnolia District, Seattle, for owner-contractor Bill Cook. Plans include low-pitched built-up fiberglass room, marble chip surface; wood siding; aluminum sash; drywall partitions; hardwood flooring, vinyl tile; fireplace; oil-fired heating system.
DD 8-13

★AIR CONDITIONING— Seattle, Wash.

Award to Jack Fast, general contractor, 22 Etruria St., Seattle, $6,590, by Civil Aeronautics Administration, procurement branch, Box 45007, Airport Station, Los Angeles, Calif., for installing two 5-ton and one 7½-ton air cooled, blower powered, air conditioner units on fourth floor of Administration Bldg., at Seattle-Tacoma Airport near Seattle; Proposal 4-58-1046. Bids opened May 30. LB 8-13. Previous report 5-24

CHURCH ADDITION, ALTERATIONS— Seattle, Wash.

Working drawings are underway by Robert W. Beatty, architect, 1321 Denny, Seattle, for a 3,000 sq. ft., one-story and daylight basement addition and alterations, to existing church at 9th Ave. S.W. and W. Henderson, Seattle, for Highland Park Methodist Church. Structure will be wood frame, with glued laminated arches, and will contain sanctuary on first floor, social hall in basement. PD 8-13

V. F. W. OFFICE BUILDING— Seattle, Wash.

Preliminary plans are underway by Marshall-Barr & Associates, architects and engineers, Lloyd Bldg., Seattle, for a 10,000 sq. ft., two-story and basement office building at intersection of Boren, Broadway and Terrace St., Seattle, for Veterans of Foreign Wars, Department of Washington. PD 8-13

★APARTMENT— Seattle, Wash.

Award to low bidder Cliff Marston, 4608 E. 103rd, Seattle, $37,477, by Irving Werfel, owner, for construction of a four-unit apartment at 2335 W. Plymouth St., Seattle. Seven bids received at August 6 bid opening. Plans by Benjamin F. McAdoo, Jr., 1718 Olive Way, Seattle.
PD 8-13. Previous report 3-22

●VEHICLE STORAGE BUILDING— Shelton, Wash.

Bids will be opened 3 p.m., P.S.T., August 26, by Department of General Administration, 218 General Administration Bldg., (Box 1164), Olympia, for construction of a vehicle storage building in Shelton, for the Washington National Guard. Plans with Engineering office, above address. $20 deposit. LB 8-9

JUNIOR HIGH SCHOOL—Snohomish, Wash.
(Estimated cost $600,000)

Working drawings will be started contingent upon state approval of preliminary plans by James Klontz & Associates, architect, Dexter Horton Bldg., Seattle, for a 15-classroom junior high school in Snohomish, for Snohomish School District No. 201, Snohomish. PD 8-5. Previous report 7-2

METHODIST CHURCH— Spokane, Wash.
(Estimated cost $250,000)

An expansion program is planned by Central Methodist Church, Rev. A. Maurice Chamberlin, Spokane district superintendent, S. 221 Howard, Spokane. A new church unit is planned east of the present structure at 3rd and Howard. Construction can be started, according to D. William Parker, building committee chairman, as soon as financing has been arranged. Plans are underway by George M. Rasque & Sons, architects, Washington Trust Bldg., Spokane. DC 8-1

TRANSIENT CENTER— Spokane, Wash.

Plans are nearly complete by Whitehouse, Price, DeNeff & Deeble, architects, 715 Hutton Bldg., Spokane, and construction will be started within 30 days for a transient center, by the owners, Franciscan Tertiary Bros., Minneapolis, Minn. A. & A. Hotel in Spokane will be rebuilt to house the center. The present center at 519 E. 3rd will become an apartment house for needy families. Concrete flooring will be supervised by John Murphy of Central Pre-Mix Concrete Co., N. 805 Division, Spokane. Renovation and construction by Anton Eberle of Eberle Construction Co., N. 3903 Cincinnati, Spokane. MH 8-7

●PRESBYTERIAN CHURCH— Spokane, Wash.

Bids will be opened 3 p.m., August 20, in the office of the architect, Eddy, Carlson & James, 1205 N. Washington, Spokane, for construction of a concrete, first unit, of the Northwood Presbyterian Church in Spokane. Plans with the architects. $25 deposit. 5% bid bond.

Plans call for concrete with vinyl asbestos tile floors; frame and stone veneer exterior; plywood and dry walls interior; aluminum foil insulation; aluminum sash; electric radiant panel heating; acoustical tile ceilings. LL 8-9. Previous report 7-24

★VORTAC FACILITY—BUILDINGS, UTILITIES— Spokane, Wash.

Award to Midway Contracting Co., 3025 Hancock St., San Diego, Calif., $26,652, by Civil Aeronautics Administration, procurement branch, 5651 W. Manchester Ave., Los Angeles, Calif., for conversion of existing mountain top VOR to a VORTAC facility near Spokane, about two mi. west of Four Lakes, Wash.; Proposal 4-59-903. Bids opened August 4. LB 8-13. Previous report 7-22

ART CENTER— Tacoma, Wash.

A proposal to turn Tacoma's police station into a Fine Arts Center, has been referred by the City Council to David Rowlands, city manager, City Hall, Tacoma. The police department plans to move to the County City Bldg next year. The proposal calls for the city to turn the structure over to Allied Arts of Tacoma for remodeling. The latter group will furnish $45,000 for renovations if the city will provide maintenance.

Sketches have been made by Liddle & Jones, architects, 1716 Pacific Ave., Tacoma, calling for the face of the building to be changed by using a steel screen from the second floor up with the first floor faced by a solid material. The City Hall Annex which adjoins the station to the north, would be torn down, under the above proposals.
DC 8-8

▲ELEMENTARY SCHOOL ADDITION— Tacoma, Wash.

Eleven general, seven mechanical and six electrical bids received by Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma, for construction of a 11,736 sq. ft., seven-classroom and kindergarten addition to the Idlewild Elementary School at 108th St. S.W., and Idlewild Road, in Lakewood, south of Tacoma. Bids opened August 7, (corrected date). Plans by Donald F. Burr & Associates, architects, 6103 Mount Tacoma Drive S.W., Tacoma.

BIDS—GENERAL: Cascade-Olympic Construction Co., Shelton, $93,550; G. Kirkebo & Son, 1410 Mountain View, Tacoma, $95,935; Fitzpatrick-McIntyre, 7701 Steilacoom Blvd., Tacoma, $96,405; J. F. Graham Co., 1408 S. 141st, Tacoma, $97,500; Korsmo Bros., 5944 Lake Grove Ave. S.W., Tacoma, $98,528; Mel Pederson, Box 2366, Parkland, $98,627; Standard Construction Co., 315 E. 25th, Tacoma, $98,950; Northern Construction Co., 6320 6th Ave., Tacoma, $99,776; Frank Noel, Morton, $108,109; Jardeen Bros., 1240 S. Sprague, Tacoma, $112,070; Strom Construction Co., 1727 Fawcett, Tacoma, $114,000.

MECHANICAL: Kaelin Plumbing & Heating, 2111 Center, Tacoma, $29,400; H-K Western, Inc., 102 S. 24th, Tacoma, $30,400; Harold Jewell Plumbing & Heating, 6605 6th, Tacoma, $32,235; Pease & Sons, 10601 Waller Road, Tacoma, $32,321; Weber Plumbing & Heating, Inc., 110 N. Tacoma Ave., Tacoma, $33,456; Bergh-Griggs, 709 Pacific, Tacoma, $34,750; Stoker Engineering Co., 4220 S. Tacoma Way, Tacoma, $34,821.

ELECTRICAL: Electric Construction Co., 1650 Center, Tacoma, $16,980; Carl T. Madsen Co., 808 N. 12th, Tacoma, $17,092; Jardeen Electric Co., 1232 S. Sprague, Tacoma, $17,968; Ault Electric Co., 4625 N. 11th, Tacoma, $18,904; Ace Electric, 2306 E. 11th, Tacoma, $20,452; Eckroth Electric Co., 7915 A St., Tacoma, $20,969. LC 8-12. Previous report 8-1

★RESHINGLING— Tacoma, Wash.

Award to B & B Co., 3910 S. 12th, Tacoma, $25,700, by Tacoma Housing Authority, 1728 E. 44th, Tacoma, for reshingling 138 housing units at the Salishan Housing Project, WASH-5-2. LB 8-13. Previous report 8-1

★JUNIOR HIGH SCHOOL— Tacoma, Wash.

Award on general contract to M & O Construction Co., 5812 S. Adams, Tacoma, $694,254, by Clover Park School District No. 400, 5214 Steilacoom Blvd., Tacoma, for construction of a one-story, four building, 79,581 sq. ft. school plant (poured concrete block and brick construction) to be called Iva Alice Mann Junior High School. Plans by Lea, Pearson & Richards, architects, 340 Stadium Way, Tacoma. Awards have not yet been made on mechanical and electrical contracts. LB 8-13. Previous report 7-21

HOSPITAL ADDITION— Toppenish, Wash.
(Estimated cost $175,000)

Preliminary drawings approved and working drawings started by Thomas F. Hargis, Jr., architect, and Clark Goldsworthy, associate, Miller Bldg., Yakima, for a one-story, brick exterior 8,500 sq. ft. masonry addition to the Central Memorial Hospital, Toppenish. Bids will be called by Central Memorial Hospital, Jed Rivard, chairman of the board, and Clarence Pritchard, administrator, Toppenish.

Interior walls will be plaster on masonry with paint finish; masonry partitions; concrete with vinyl tile covering floors; steel decking roof; metal sash on windows, hot water oil fired heating. Addition will provide space for additional beds, new laboratory, record room additional storage space, enlarged laundry and enlarged administrative area. IG 8-7. Previous report 7-25

HIGH SCHOOL— Tumwater, Wash.

Tumwater School District 333, Thurston County, Box 98, Tumwater, has set September 9 for voting on a 20-mill levy to finance cost of a new high school building in Tumwater. An earlier levy of $100,500 was passed in March but not enough voters turned out to meet the required 60%. MH 8-4

CATHOLIC HIGH SCHOOL— Walla Walla, Wash.
(Estimated cost $500,000)

A call for bids is expected in September on the proposed Central Catholic High School in Walla Walla. Plans by Culler, Gale, Martell & Norrie, architects, Realty Bldg., Spokane, call for 13 study units, library, cafeteria, gymnasium and chapel. Structure will be built on 17-acre tract east of Borleske Stadium.
MH 8-1. Previous report 3-26

PUD ADDITION— Wenatchee, Wash.

Tentative plans have been made by Chelan County Public Utility District No. 1, 327 N. Wenatchee Ave., Wenatchee, for a third story for the existing office building and for an extension of the structure on the north side of the site. Sketches have been completed by Newhall, Peach & Fraley, architects, 111 Yakima Ave., Wenatchee.
DC 8-8

▲AIRPORT TERMINAL BUILDING— Wenatchee, Wash.

Bids received August 6 by H. F. Rumohr, City clerk, City Hall, Wenatchee, for con-

struction of 4,800 sq. ft., one-story, administration and terminal building at Pangborn field, the municipal airport, in Wenatchee. Plans by Newhall, Peach & Fraley, architects, 111 Yakima Ave., Wenatchee.

Six bids received. The following are the basic figures: Lowry Construction Co., Box 3013, Wenatchee, $102,019; Armstrong & Armstrong, Box 59, Wenatchee, $102,150; Cusick Construction Co., Box 652, Wenatchee, $103,900; Hill's Construction Co., Box 1522, Yakima, $105,500; Vandivort Construction Co., Box 1647, Wenatchee, $107,640; Hainsworth Construction Co., 3028 Western Ave., Seattle, $109,749. Five alternates. Award will be announced soon.

LB 8-8. Previous report 7-31

●VEHICLE STORAGE BUILDING— Wenatchee, Wash.

Bids will be opened 3 p.m., P.S.T., August 26, by Department of General Administration, 218 General Administration Bldg., Olympia, for construction of a vehicle storage building in Wenatchee, for the Washington National Guard. Plans with Engineering office, above office. $20 deposit.

LB 8-9

APARTMENT ADDITIONS—Yakima, Wash.
(Estimated cost $66,000)

Construction of an addition of 10 units to apartment building at 9 S. Naches Ave., Yakima, has been postponed until fall, by the owner, Mrs. Alice Malloney, above address. Plans will be revised to comply with building code and zone requirements. General contract is held by Paul Cook, 307 Crescent Drive, Yakima.

Exterior walls, brick veneer; flat roof, mop gravel; four units will have living room, bedroom, kitchen, dinette and bath, six units will include living room, kitchen, dinette and bath; interior walls, plasterboard, plaster paint finish, birch trim; plastered and painted ceilings; windows with wood casings and sashes; frame floors; electric heat. IG 8-5. Previous report 7-19

CHURCH EDUCATIONAL UNIT— Yakima, Wash.

Preliminary drawings are underway by Durham, Anderson & Freed, architects, 1100 Denny, Seattle, for an educational unit for Central Lutheran Church in Yakima. Present plans call for 9,000 sq. ft. of Sunday school space, a small chapel, administrative offices and choir practice room. The new unit will have cedar siding to coincide with the existing church building at 16th and W. Yakima Ave., Yakima.

IG 8-8. Previous report 1-29

CONVALESCENT HOME ADDITION— Yakima, Wash.

Construction started by John Dietz, general contractor, 3004 Naches Highway, Yakima, for an addition to the existing building at 818 W. Yakima Ave., Yakima, for owners. Structure will provide for approximately 14 additional beds and an apartment for the owner on part of second floor; frame exterior walls with stucco and paint finish; wood lath and plaster interior walls; wood lath and plaster partition; plaster and paint ceilings; frame floors; flat roof with composition; hot water oil fired heating. Estimated cost $22,000. IG 8-12

IDAHO

●BUILDING RENOVATIONS—Boise, Idaho

Bids will be opened 10 a.m., August 20, by City Purchasing Agent, City Hall, Boise, for exterior repair work and painting at the Boise Public Library, 815 Washington, Boise. Plans with purchasing agent. LC 8-12

★STUDENT CENTER— Caldwell, Idaho

Award to Matthews-Paterson Construction Co., 120 Fort, Boise, $129,476, (contingent on federal government approval) by College Board of Trustees, College of Idaho, Caldwell, for construction of a one-story, 11,224 sq. ft. Student Center Building for the College. Plans by Hummel, Hummel and Jones, 1324 Idaho St., Boise.

LB 8-12. Previous report 8-5

★TRAILER PLANT— Caldwell, Idaho

Award to Babbitt Construction Co., 1620 Taggart, Boise, $208,400, by Kit Trailer Manufacturing Co., Long Beach, Calif., for construction of a 200'x300' trailer manufacturing plant at Crookham and Airport avenues in Caldwell. Plans by Ronald M. Blakley, consulting engineer, 112 S. 5th St., Caldwell. Bids opened July 23.

LB 8-13. Previous report 8-6

MEDICAL CLINIC, PHARMACY— Coeur d'Alene, Idaho

Plans announced for a medical clinic and pharmacy building to be built on Mullan street between 11th and 12th streets in Coeur d'Alene, by Dr. E. R. W. Fox, Wiggett Bldg., Dr. William T. Wood, 118 7th, and Dr. W. W. Wilson, Wiggett Bldg., owners, all Coeur d'Alene. MH 8-9

▲VEHICLE GARAGE—Emmett, Boise, Idaho

One bid received, that of Mann Construction Co., Box 595, Redmond, Ore., $5,184, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif.; for construction of a concrete block snow vehicle garage and outside wooden toilet at the VHF/UHF, A/G Communication facility about 15 mi. northwest of Emmett, Idaho, and construction of an outside wooden chemical toilet at the VHF/UHF, A/G Communication Facility three mi. south of Gowen Field in Boise; Proposal 4-58-1060. Bids opened August 6.

LB 8-13. Previous report 7-23

★RANGER STATION— Grangeville, Idaho

Award to Griewing & Westermeier, 315 S. B, Grangeville, $68,695, by U.S. Forest Service, Regional Forester, 1036 Federal Bldg., Missoula, Mont., for construction of three 3-bedroom residences with garages and one office-warehouse building at Slate Creek Ranger Station, 30 mi. south of Grangeville. Eleven bids received August 4.

OTHER BIDS: Grangeville Lumber Co., 703 W. S 1st, Grangeville, $78,957; Madison Lumber & Mill Co., Peyton Bldg., Spokane, Wash., $83,953; Westphal Construction Co., Spokane, Wash., $95,189; Charles H. Justus, 905 Boyd Ave., Coeur d'Alene, $95,583; J. G. Prokesh, 1105½ Longmont Ave., Boise, $96,070; R. C. Worst Construction Co., 625 Best, Coeur d'Alene, $104,900; Federal Construction Co., E. 3420 Sprague, Spokane, Wash., $107,844; Payton Construction Co., Boise, $110,600; Stern Construction Co., Inc., E. 815 Francis, Spokane, Wash., $112,025; Art Wohl, Target Range, Missoula, Mont., $142,091.

LB 8-8. Previous report 7-11

SCHOOLS— Idaho Falls, Idaho

The Office of Education has notified Idaho Falls School District 91, 150 N. Water Ave., Idaho Falls, that $117,500 has been reserved for local school construction. Acting school superintendent, W. G. Ward, states that this amount may be for one of the following items on which the district has applied for aid: 1—new classroom additions, $250,000, 2—12-classroom addition to middle wing of senior high school, $230,000, 3—six-classroom addition to Whittier Grade School, $120,000.

LC 8-8

SCHOOLS— Lapwai, Idaho

School bond issue for $325,000 approved by voters, for school construction within the district. Bids will be called by Lapwai School District 341, John Cernak, superintendent, Lapwai. Now authorized for construction is an 8-room addition to Lapwai High school, a vocational agricultural building, a shops building and storage garage for busses, and also a new elementary school at Lenore.

MH 8-12

▲BANK REMODELING— Lewiston, Idaho

Bids received by First Security Bank of Idaho, 5th and Main, Lewiston, for remodeling of the bank's branch building at above address. Plans by Hummel, Hummel & Jones, architects, 1324 Idaho St., Boise. Bids opened August 1. LOW BIDS: E. F. Shuck Construction Co., 535 Pontius Ave., Seattle, Wash., $186,040; T. R. Pope Construction Co., 2045 Riverside Drive, Clarkston, Wash., $191,680; Kenaston & Huntley, 811 11th, Lewiston, $197,280.

Work consists of new interior and exterior walls; steel framing of 1st story walls and for support of 2nd floor construction; new interior partitions, and interior masonry walls; new basement and 1st story vaults; new sidewalks on Main and Ninth streets; exterior 1st story street walls will be granite; 2nd story walls will be brickwork; Portland cement stucco on 1st and 2nd story alley walls; plaster on basement and 1st story ceilings, new acoustical ceiling basement and first stories; stairs to basement; aluminum and glass entrance doors, vestibules; new aluminum, glass front on Main street; aluminum sash in first story, light court walls in second story and alley street walls; terrazzo floors on entries 1, 2 and 3; gas fired, two pipe steam heating system using convectors; wall fin radiation and cast iron wall radiation; incandescent, fluorescent lighting. LC 8-12. Previous report 7-23

ELEMENTARY SCHOOL, VOCATIONAL AGRICULTURAL BUILDINGS— Montpelier, Idaho

Preliminary drawings underway by Norman J. Hamill & Associates, architects, 216 Earl Bldg., Idaho Falls, for a vocational agricultural building at Montpelier, and remodeling facilities at the high school for Bear Lake County Class A School District. A. J. Winters, superintendent, Montpelier. Bond issue was recently approved for $436,000. GH 8-7. Previous report 3-29

STUDENT UNION BUILDING ADDITION— Moscow, Idaho

Project postponed until next spring by Board of Regents of the University of Idaho, Moscow, for an addition to the student union building, on the university campus. Architect: Dropping, Kelley & Finch, 2504 Kootenai, Boise, and Wayland & Cline, associates, Idaho Bldg., Boise. Mechanical and electrical engineer: Lyle Marque & Associates, Realty Bldg., Spokane.

Building will be built around an enclosed court with skating rink (covered) at one end. Two-story building and basement; 60,000 sq. ft.; reinforced concrete footings, foundation; poured concrete and metal walls; concrete beams and girders; flat roof, concrete, partial truss; concrete stairways; aluminum windows; plaster partitions; wood, asphaltic tile, ceramic tile and terrazzo floor finish; acoustical ceiling; folding doors; refrigeration; partial air conditioning; steam heat from central system. Cost including construction, utilities, furnishings and fittings estimated at $1,800,000.

GH 8-6. Previous report 7-2

INFIRMARY ADDITION— Moscow, Idaho
(Estimated cost $275,000)

Preliminary drawings underway by Wayland & Cline, architects, 624 Idaho Bldg., Boise, for an 36-bed addition to the student hospital at the University of Idaho. Bids will be called about January or February, 1959, by University of Idaho, Board of Regents, Moscow. GH 8-7. Previous report 6-17

★SCHOOL RE-ROOFING— Moscow, Idaho

Award to Diamond Roofing Co., 738 Bryden, Lewiston, $10,260, by Moscow School District No. 281, Lester C. Boyd, clerk, Moscow, for reroofing with 20-year bonded roofing the Moscow High School, and Russell School in Moscow. Bids opened August 4. OTHER BIDS: United Roofing & Sheetmetal Co., S. 310 Howard, Spokane, Wash., $10,444; Hefte Construction Co., E. 11607 Trent, Spokane, Wash., $12,820; C. & S. Builders, 510 Dexter, Pullman, Wash., $17,298. MH 8-8. Previous report 7-29

★SCHOOL— Moscow, Idaho

Awards announced by Moscow School District No. 281, 205 N. Monroe, Moscow, for construction of the two-story, masonry, junior high school including science room, 14 classrooms, home economics room, music department with band room, practice rooms and storage, office suite, multi-purpose room with stage, kitchen, shower and dressing rooms, mechanical room, and combination library and study hall, on D St. in Northwest Moscow. Plans by George M. Rasque & Son, architects, Washington Trust Bldg., Spokane, Wash. AWARDS — GENERAL: Commercial Builders, 301 College, Moscow,

$352,966. MECHANICAL: C. M. Wilderman Co., 520 S. Main, Moscow, $76,100. ELECTRICAL: C. M. Wilderman Co., Moscow, $30,650. Some alternates may be accepted.
MH 8-12. Previous report 8-8

▲SCHOOL— Moscow, Idaho

Ten bids on general, six on mechanical and five on electrical received by Moscow School District No. 281, 205 N. Monroe, Moscow, for construction of the two-story, masonry, junior high school including science room, 14 classrooms, home economics room, music department with band room, practice rooms and storage, office suite, multi-purpose room with stage, kitchen, shower and dressing rooms, mechanical room, and combination library and study hall, on D St. in Northwest Moscow. Bids were opened August 6.

Plans by George M. Rasque & Son, architect, Washington Trust Bldg., Spokane.

BIDS—GENERAL: Commercial Builders, 301 College, Moscow, $352,966; Purvis Construction Co., E. 5019 Sprague, Spokane, Wash., $376,648; H. Halvorson, Inc., E. 5128 Sharp, Spokane, $379,717; Johnson, Busboom, Rauh, N. 601 Cedar, Spokane, $379,940; Walter Varnum, 103 Summit Ave., Coeur d'Alene, $380,975; Henry George & Sons, Hutton Bldg., Spokane, and Dunham Bros., 18 A W, 6th Village, Moscow, $381,500 (joint venture); Ruud Construction Co., Realty Bldg., Spokane, $382,600; Selkirk Co, Inc., W. 722 16th, Spokane, $385,300; Ritchie & Co., 2102 Melrose, Walla Walla, $44,381; Hansen & Parr, W. 315 Boone, Spokane, $419,700. Eight alternates.

MECHANICAL: C. M. Wilderman Co., 520 S. Main, Moscow, $76,100; McClintock & Turk Plumbers, N. 3812 Division, Spokane, $76,845; Warren, Little & Lund, W. 120 2nd, Spokane, $80,100; James Smyth Plumbing & Heating Co., N. 216 Division, Spokane, $80,722; H. D. Powell Plumbing & Heating, 612 S. Main, Moscow, $91,470; Intermountain Co., 1322 Grove, Boise, $103,465. Two alternates.

ELECTRICAL: C. M. Wilderman Co., 520 S. Main, Moscow, $30,650; Spence Electric 306 S. Washington, Moscow, $33,889; Moscow Electrical Co., 203 S. Main, Moscow, $37,403; Electric Smith, E. 123 Sprague, Spokane, $38,350; Peet Electric, 521 Main, St. Maries. Nine alternates.
MH-LL 8-8. Previous report 7-31

★GYMNASIUM ADDITION—Rupert, Idaho

Award to Earl B. Peck, 1410 Poplar, Twin Falls, $24,980, by School District No. 331, 633 Fremont Ave., Rupert, for construction of a dressing room building by the athletic plant near Minidoka County High School at Rupert. Plans by Hunter, Brower & Associates, architects, Dietrich Bldg., Pocatello. Bids opened August 8. OTHER BIDS: J. A. Clawson, 129 Carney St. N., Twin Falls, $26,541; Wright Brothers, Rupert, $28,614; A. G. Hill, Alameda, $31,845.
LB 8-12. Previous report 8-1

HOSPITAL— Rupert, Idaho

Plans for a 30-bed Minidoka County hospital at Rupert, are still pending funds. Drawings are being prepared by Harold T. Johnson, architect, and Frank M. Fonda, associate, 1212 2nd Ave. E., Twin Falls. A 30-acre site at Hunters corner west of the Rupert city limits has been purchased. Financing will be from county funds and Federal allotment.

Chairman of the hospital board, Clark Cameron, Rupert, has forwarded to Idaho State Hospital Board in Boise, papers requesting Federal allotment for the project.
MH 8-1. Previous report 3-29

CAMPGROUND IMPROVEMENTS— Southern Idaho
(Estimated cost $353,100)

Eight campgrounds in southern Idaho will benefit to the amount of $353,100 in Federal funds, for various improvements. Among new items planned for the grounds at 65 new table-stove units.
DC 8-9

HOSPITAL— Sun Valley, Idaho
(Estimated cost $240,000)

Plans and specifications for a 22-bed 16,000 sq. ft., hospital to be built adjacent to Challenger Inn at Sun Valley, will be available on or about August 14 from the office of Nat J. Adams, architect, Idaho Bldg., Boise. $25 deposit. Bids will be called on or about September 2 by State Department of Health, W. Brooks Martin, director of state hospital facilities, Boise. The bid call is predicated upon receipt of approval of plans by the regional office of the Public Health Service in Denver, Colo.

Frame with stucco exterior; prefabricated roof trusses at 24" centers with wood roof over; plaster walls and partitions; wood frame floor with vinyl asbestos tile covering. Heating will be provided from the existing steam main to the mechanical room located in the lower floor or basement in the new building.
DM 8-8. Previous report 6-20

MEDICAL BUILDING— Twin Falls, Idaho
(Estimated cost $38,500)

Bids on masonry, plumbing, wiring and heating are being received by Darrell Jensen, contractor (office south of Twin Falls) for the wood frame, brick veneer, Mitchell Hunt Medical Bldg., on south side of 1200 block of Filer Ave. E., Twin Falls. Plans by Jones & Breinholt, architects, 131 2nd W., Twin Falls. Completion time November 1.
LC 8-8

MONTANA

▲TELEPHONE BUILDING— Belt, Mont.

Five bids received by Mountain States Telephone and Telegraph Co., 401 1st N., Great Falls, for construction of a telephone building at Belt, Mont. Bids opened August 6. BIDS: Rex M. Hoff, Martinsdale, $5,075; Gens Construction Co., Box 465, Great Falls, $5,246; Zion Construction Co., 3016 5th Ave. N., Great Falls, $5,876; I. L., Kent, 206 N. 4th St., Hamilton, $5,902; L. P. Barney Construction Co., 1100 Waukesha, Helena, $7,105.
LB 8-13. Previous report 7-30

★HIGH SCHOOL— Billings, Mont.

Awards announced by Board of Trustees, Yellowstone County School District No. 2, 2911 4th Ave. N., Billings, for construction of a one- and two-story concrete and solid masonry high school in Billings. Plans by Nordquist & Sundell, architects, 1233 N. 27th St., and Drake & Gustafson, associates, Empire Bldg., Billings. AWARDS—GENERAL: Hitz Construction Co., 2111 4th Ave. N., Billings, $1,038,946. MECHANICAL: Frisby Plumbing & Heating, 212 Grand Ave., Billings, $213,570. ELECTRICAL: Curley-Naylor Electric Co., 123 N. 16th St., Billings, $99,367.
EE 8-12. Previous report 8-5

SHOPPING CENTER— Billings, Mont.
(Estimated cost $3,000,000)

Construction planned by Albertson's, Inc., 1610 State, Boise, Idaho, for a shopping center at 1600 Grand Ave. in Billings, to be known as West Partington Plaza. Owner has purchased 30-acre tract for center at a cost of $270,000. Center will contain 200,000 sq. ft. floor space and parking area for 3,000 cars.
EE 8-13

★WOMEN'S RESIDENCE HALL— Bozeman, Mont.

Awards announced by Montana State College, R. R. Renne, president, Bozeman, for construction of a three-story, split level, no basement, H-shaped Women's Residence Hall No. 2 at the college. Plans by Cushing, Terrell and Associates, architect, 1333 Airport Road, Billings. AWARDS—GENERAL: Haggerty-Messmer Co., Box 751, Billings, $927,000. MECHANICAL: Midland Plumbing and Heating, Box 1911, Billings, $244,851. ELECTRICAL: Bozeman Electric Co., 213 E. Main, Bozeman, $82,595.
LB 8-8. Previous report 7-16

●INSTALL BOILER PLANT— Bozeman, Mont.

Bids will be opened 10 a.m., August 21, by State Board of Examiners, Capitol Bldg., Helena, for installation of a boiler plant burner at the Montana State College in Bozeman. Specifications with R. L. Prussing, engineers, 201 M & R Bldg., Billings. 5% bid bond.
LL 8-13

●HOSPITAL— Great Falls, Mont.
(Estimated cost $2,414,941)

Bids will be opened 2:30 p.m., September 5 by Cascade County Commissioners, Courthouse, Great Falls, for construction of one-story, 90,000 sq. ft., concrete convalescent hospital on a site in Highland Park south of the city. Plans with Knight & van Teylingen, architects, Medical Arts Bldg., Great Falls. $100 deposit.

Building to include boiler room; solid masonry, curtain walls; concrete, beam and girder floors; concrete precast girders; prestressed roof; concrete stairways; aluminum windows; rigid insulation in roof; porcelain enamel panels on exterior walls, plaster on interior; exposed masonry, plaster, metal stud partitions; asphalt, ceramic and vinyl tile floors; plaster, acoustical ceilings; wood and aluminum doors; wood and steel cabinets; glass panels; refrigeration, fire doors; hot water heating system, gas fuel; ventilating system; alternate for air conditioning.
DM 8-9. Previous report 7-16

★CHURCH— Havre, Mont.

Awards announced by Van Orsdel Methodist Church, Havre, for construction of a church building on corner of 4th St. and 5th Ave., Havre. This will be first phase of a two-part building program, and will include sanctuary, fellowship hall, kitchen, youth room, choir rooms, nursery, offices, study. Second phase will involve church parlors, primary and junior department, and will be bid at a later date. Plans by Knight & van Teylingen, architects, Masonic Temple Bldg., Havre. Bids opened August 7. The following are the basic bids. AWARDS—GENERAL: Gens Construction Co., Box 465, Great Falls, $178,300. OTHER BIDS: Chris Fuglevand Co., Inc., 519 4th, Havre, $193,850; Gyrion Construction Co., Box 72, Kalispell, $198,800. MECHANICAL: Roy Nault Plumbing & Heating, 411 3rd, Havre, $33,000. OTHER BID: J. A. McCauley, 411 3rd, Havre, $34,500. ELECTRICAL: Electric Supply, 255 W. 1st, Havre, $9,849. OTHER BID: Havre Electric, 317 3rd, Havre, $10,867.
LB 8-12. Previous report 8-1

★SHOPPING CENTER— Kalispell, Mont.

Award to Gyrion Construction Co., 94 Fifth Ave. W.N., Kalispell, no amount noted, by owners, for the general contract for construction of a three-unit, 14,000 sq. ft., 90'x140' shopping center at 3rd Ave., E.N. and Idaho St., Kalispell. The building will be constructed at the site of a present parking lot of the B & B Foodliner, and will be set back nearly half a block from Idaho St., which it will face. Total cost of project, including land, building, parking lot, and fixtures estimated at $325,000. Construction underway and completion time December 1.
RB 8-12

▲CHURCH, EDUCATION BUILDING— Laurel, Mont.

Five bids on general and five bids on electrical contracts received and subsequently taken under advisement by St. John's Lutheran Church at Laurel, for construction of a 42'x85' church and 32'x30' education building (to be connected by a narthex), on site of present church in Laurel. Plans by Drake & Gustafson, architects, Empire Bldg., Billings. Bids opened August 7. BIDS—GENERAL: Wells Bros. Construction Co., 704 Dunham Ave., $54,855; Clark Construction Co., 931 Princeton Ave., $57,741; Frates Construction Co., 424 Rimrock Road, $55,335; Sheetz Construction Co., 345 Broadwater Ave., $56,797; Bailey Construction Co., 2964 Harrow Drive, $61,176. ELECTRICAL: Sterling Electric, 1231 Central Ave., $3,147; Yellowstone Electric, 528 N. 32nd St., $3,518; Empire Electric, 2412 4th Ave. N., $3,548; Reddi Electric, $5,413; Ted's Electric, 210 1st Ave., Laurel, $6,516. All of Billings unless noted. Mechanical contract negotiated with church member.
EE 8-12. Previous report 7-16

▲INSTALL SIDING— Malmstrom AFB, Mont.

A low bid of $9,855 was submitted by Canoy Construction Co., 1304 2nd S.W., Great Falls, for installation of siding on five buildings at Malmstrom AFB. Only other bidder was Jack Lins, 1817 1st S., Great Falls, $12,368 when the procurement office at Malmstrom opened bids August 4. Government estimate was $6,250.
DC 8-9

●**BOILER ALTERATIONS—** **Malmstrom AFB, Mont.**

Bids to be opened 9 a.m., August 25, by procurement office, Building T 1308, Malmstrom Air Force Base, for mechanical alterations in various boiler plants at the base. Plans with above office. DC 8-9

★**SCHOOL ADDITION— Opportunity, Mont.**

Awards announced by School District No. 10, Anaconda, for construction of a 4,700 sq. ft., four-classroom addition to the Beaver Dam school in Opportunity. Plans by Fox, Ballas & Barrow, architects, Savings Center Bldg., Missoula. AWARDS—GENERAL: Leo Smith Construction Co., Box 1818, Anaconda, $48,471. MECHANICAL: Saltenberger Plumbing & Heating, 213 E. Commercial, Anaconda, $20,380. ELECTRICAL: Copper City Electric, 2023 Harrison Ave., Butte, $7,284.
LC 8-13. Previous report 8-9

HOSPITAL— Warm Springs, Mont.

Montana Board of Examiners, Helena, has authorized use of federal Housing and Home Finance Agency money for a long range improvement program at the state hospital in Warm Springs. Preliminary plans call for a medical-surgical hospital, a central food facility, a new multiple purpose activity building and an auditorium.

The architectural firm of J. G. Link & Co., 111 N. Montana Ave., Butte, has been retained to prepare plans for the food center.

Plans for the other proposed buildings will be prepared by Norman J. Hamill, architect, 122 W. Granite, Butte. DC 8-9

ALASKA

★**HEALTH CENTER— Anchorage, Alaska**

Award to Bliss Construction Co., 301 E. 5th Ave., Anchorage, $12,398, by City Council, City Hall, Anchorage, for interior remodeling of health center building owned by City of Anchorage. Plans by Maynard Taylor, Jr., architect, 744 4th Ave., Anchorage. AL 8-8. Previous report 8-6

★**TELEPHONE EXCHANGE BUILDINGS— Anchorage, Alaska**

Award to C & R Builders, Box 4-1217, Spenard, $250,157, by City Council, City Hall, Anchorage, for construction of three sub-exchange telephone buildings—Federal Exchange at Grandview Gardens, Fairfax in Spenard, Diamond on Seward Highway near Sand Lake Road. Plans by Manley & Mayer, architects, room 210, Loussac-Sogn Bldg., Anchorage. C & R Builders were also awarded a contract for $1,200 for a well at the site of the Diamond Exchange.
AL 8-8. Previous report 8-5

INDUSTRIAL, BUSINESS BUILDING— Anchorage, Alaska

(Estimated cost $34,000)

Construction planned for completion of present industrial and business building for Alaska Orthopedic Appliance Co., 916 Fifth Ave., Anchorage. Construction is now underway on the mechanical and electrical work by A. O. Rogers, owner, builder-contractor, 916 5th Ave., Anchorage. Structural engineers for steel work: Jackson Steel Co., 7th and Orca, Anchorage.

New construction includes full basement, 45'x25' in center section of completed building, and two stories, main floor to be 45'x 25', and second floor 56'x25'. Completed building (new structure with one now existing) will be 25'x75'. Ground floor is for manufacturing business, second floor for office rentals.

Structure will have block walls; concrete beam and girder floors; steel girders and beams; flat roof; frame partitions; wood stairways; wood windows; glass insulation in walls and ceiling; slim line lighting; hot water heating system using oil fuel; wood interior trim; drywall partitions for finished construction; asphalt tile floor finish; drywall ceilings; wood and steel doors; wood cabinets; automatic fire alarm system. All but electrical plans are complete. Completion time October 15. AL 8-9

★**APARTMENTS— Bethel, Alaska**

Award to Moore and Mosley Construction Co., Box 1101, Fairbanks, $183,420, by Civil Aeronautics Administration, procurement branch, 223 E. 5th Ave., Anchorage, for construction of two frame court-type apartments and construction of a quarters access road and related work, Bethel; Ref. No. 5-59-2. AL 8-9. Previous report 8-5

●**BUILDING RENOVATIONS— Elmendorf AFB, Alaska**

Bids will be opened 10 a.m., A.S.T., August 27, by U.S. Air Force, Base Procurement Office, Bldg. T-22-057, Elmendorf AFB, for interior cleaning, painting and decorating and floor finishing of 22 Boston and 52 Houston type family quarters; IFB 65-501-59-16. Plans with above office. AL 8-8

BOWLING ALLEY— Fairbanks, Alaska

Fairbanks Builders, Inc., general contractor, 1446 Turner, Fairbanks, has been retained to construct a 24-lane, one-story and partial basement, 24,000 sq. ft., poured concrete, block and frame, bowling alley at 10th Ave. and Cowles St. in Fairbanks, for Arctic Bowl, Inc. Plans by Alaska Agricultural and Engineering Co., 710 3rd Ave., (Box 509), Fairbanks. Mechanical engineers are Stern & Town, 615 Lakeview Blvd., Seattle. Electrical engineer: James M. Lake, 915 7th, Fairbanks. Bids will be called at a later date for mechanical and electrical contracts.

Reinforced concrete and concrete block footings and foundation; frame and concrete floors; flat roof, steel trusses, metal roofing; masonry and frame partitions; wood and concrete stairways; wood sash; some curtain wall and metal panels; wood flooring on alleys, ceramic tile and asbestos tile otherwise; plaster, drywall, acoustical ceilings; wood, steel, aluminum doors; fire doors; rigid insulation in roof, batt in walls; incandescent, fluorescent lighting; stoker fired steam boilers, coal-fired; air-conditioning. LB 8-13. Previous report 8-1

■**MAINTENANCE SHOP— Fort Richardson, Alaska**

(Estimated cost up to $1,000,000)

Planholders announced on construction of theater maintenance shop, gate house, security fence, asphalt paving, sewer and water line at Fort Richardson; ENG-95-507-59-4. Bids will be opened 3 p.m., August 19, by Corps of Engineers, Box 7002, Anchorage.

Planholders: Stoen Construction Co., 2210 E. 95th, Seattle, Wash.; James S. Baker Co., 311 California St., San Francisco, Calif.; M-B Contracting Co., 1109 Lloyd Bldg., Seattle; Patti-MacDonald Construction Co., Pouch No. 6, Anchorage; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Lease Co., Inc., 1501 N. 35th, Seattle.

Jervis B. Webb, 2001 Eastlake Ave. N., Seattle; C. A. King Co., 2323 2nd, Seattle; Grinnell Co., 3101 Elliott Ave., Seattle; Soule' Steel Co., 4100 W. Marginal Way, Seattle; Puget Sound Fabricators, 3670 E. Marginal Way, Seattle; Jan-Pacific Co., 1718 Broadway, Seattle; Crowder Heating Co., 1800 Taylor, Seattle; W. R. Grasle Co., 437 N.W. 16th, Portland, Ore.; E. J. Bartells Co., 1212 6th S., Seattle; Alaskan Plumbing Supply Co., Arctic Bldg., Seattle; Hart Plumbing and Heating Co., 11555 27th N.E., Seattle; Holaday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; Urban Plumbing and Heating Co., 2904 S.W. 1st., Portland.
DM 8-13. Previous report 8-12

●**REROOFING GARAGE— Glenallen, Alaska**

Bids will be opened 11 a.m., P.S.T., August 26, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for reroofing of the Bureau of Public Roads depot garage, at Glenallen; Proj. F-02(59). Plans with above office. Bid bond 5%. LB 8-12

★**MAINTENANCE BUILDING— Homer, Alaska**

Award to Arndt Bros., Box 9, Homer, $20,893, by Department of Aviation, 202 Glover Bldg., Anchorage, for constructing a metal maintenance building at Homer Municipal Airport, Homer; Proj. No. 9-50-036-02. AL 8-8. Previous report 7-16

▲**REMODELING CORNICES— Juneau, Alaska**

Four bids received by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for remodeling cornices in the Federal and Territorial Building, 4th St., Juneau; SEA-1105. Bids opened August 8. LOW BIDS: Roy W. Tarp & Co., 2714 E. 168th, Seattle, $84,965; C & R Builders, Inc., 1619 8th N., Seattle, $89,470. HI: Sahara Water Proofing Co., 2324 Jameson, Seattle, $122,238. PD 8-12. Previous report 7-24

★**ELECTRICAL MODIFICATION— Ladd AFB, Alaska**

Award to Acme Electric Co., Box 532, Fairbanks, $11,964, by U. S. Air Force, procurement office, Ladd AFB, for minor electrical modifications in Bldg. 1555; rehabilitation of lighting in Warehouse No. 1, Bldg. 3652; installation of eight lights in Main Power Plant, Bldg. 3595, Ladd Air Force Base; IFB 65-500-59-7. Bids opened August 4. ONLY OTHER BIDS: City Electric Co., Box 1362, Fairbanks, $12,970; L & H Electric, Box 1921, Fairbanks, $14,345.
LB 8-13. Previous report 7-12

BRANCH BANK— Spenard, Alaska

Plans underway by Edwin B. Crittenden & Associates, architects, 835 Ninth, Anchorage, for a 45'x60' one-story with basement new branch bank building at Northern Lights Boulevard and Spenard Road, Spenard, for First National Bank of Anchorage, 646 Fourth Ave., Anchorage. Construction will be by Walter J. Hickel Construction Co., 720 Gambell, Anchorage. Building is being designed for future additions and additional drive-up windows. Estimated cost is $200,000. Completion time December. AL 8-12

ENGINEERING NEWS

Oregon, Washington, Idaho, Montana, Northern California, Alaska

● Bids Called
★ Contract Awards
▲ Low Bids—Bids Received
■ Planholders—Prospective Bidders

OREGON

RESERVOIR— Albany, Ore.

Pacific Power and Light Co. are planning construction of a new 2,000,000-gal. reservoir that will double Albany's water storage capacity. It will be built adjacent to existing water plant at 4th Ave. and Maple St. in Albany. Completion is set for early summer of 1959. DC 8-13

●**GAS LINES— Astoria, Ore.**

Bids will be opened 2:30 p.m., August 19, by U.S. Naval Station, Tongue Point, for altering existing gas line entrances of buildings at the U.S. Naval Station; Spec. No. 18302/58. Plans with officer in charge of construction, above address. Work will provide above grade expansion loops for 62 quarters buildings, and involve pipe fitting, excavation and backfill. LC 8-8

BALD MOUNTAIN HYDROELECTRIC PROJECT— Coquille, Ore.

A license to construct the $29,479,000 Bald Mountain hydroelectric power project on the Illinois River in Curry and Josephine counties, Ore., has been requested of the FPC by Coos-Curry Electric Cooperative, Inc., 74 W. 1st, Coquille. The site is located 25 mi. east of Gold Beach. A preliminary permit was issued May 1, 1955, but has

expired. The 124' high, 600' wide, concrete gravity dam would produce 92 kw. Project would also include automatic spillway gates, 225 acre reservoir, 3.9 mi. concrete tunnel, underground penstocks and powerhouse 12 mi. below dam. MH 8-8

WATER SYSTEM EXPANSION— Corvallis, Ore.

Plans for water system expansion in Corvallis have been presented by Cornell, Howland, Hayes & Merryfield, 1600 Western Ave., Corvallis, to the City Council, City Hall. Estimated cost over a 15-year period is $3,900,000.

Initial phase of program involves a three-year, $1,400,000 development which includes a 5,000,000-gal. reservoir north of the city and another unit to provide an additional 4,000,000 gal. daily added to Willamette treatment plant. Additions will be required to distribution grid, and replacement of transmission lines. Hill areas will require additional pumping stations and storage tanks. LC 8-8

WATER STORAGE DAM— Dallas, Ore.

A bond issue will be placed on the November 4 ballot by Dallas City Council, to finance construction of a storage dam on Rickreall Creek. The council has decided to increase the amount of the proposed issue from $260,000 to $290,000. DC 8-13

● EXCAVATION— Dayton, Ore.

Bid opening of August 14 extended to 2 p.m., August 26, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for clearing 4,350 c.y. bank excavation and 6,780 c.y. toe-trench excavation at Location A, Downstream Extension, along left bank of Lambert Slough on Willamette River, approximately 8 mi. south of Dayton, Yamhill County; CIVENG-35-026-59-17.

LB 8-12. Previous report 8-8

▲ WATER LINE— Eugene, Ore.

Seven bids were received by Eugene Water and Electric Board, 500 E. 4th, Eugene, for construction of about 13,000' of 30" water transmission line with appurtenances. LOW: C. H. Strong Engineering and Construction Co., 3871 Royal, Eugene, $258,108 (coal tar enameled steel pipe with dresser couplings), $264,349 (coat tar welded steel), $265,597 (concrete cylinder pipe). Bids were opened August 7.

Other bids: Lord Bros., Box 5626, Portland, $274,370 (steel pipe with dresser couplings), $265,597 (concrete pipe); Salem Sand and Gravel Co., 1405 Front N.E., Salem, $291,027 (welded steel), $298,312 (steel with dresser couplings), no bid on concrete; Lee Hoffman, Box 37, Beaverton, $341,222, $321,250, $322,499; Engineers Pipeline Co., Ltd., Houston, Tex., $355,283, $324,078, $334,063; Hood Construction Co., 1301 S. Capitol Blvd., Boise, Idaho, $307,603 (concrete); Phoenix-Matthews Co., 1040 N.E. Baldwin, Portland, $364,721, $359,728, $372,210.

DC 8-12. Previous report 7-24

★ PAVING, SEWERS— Eugene, Ore.

Awards announced by Robert A. Finlayson, city manager, City Hall, Eugene, for paving on four streets, Willamette to Harris, et al, and for installing sanitary sewer in 28th - Chambers section. AWARDS — STREETS: Wildish Construction Co., 5001 Franklin, Eugene, $43,240 (Willamette), $32,724 (Garfield St.); Central Heating Co., 865 Olive, Eugene, $23,507 (36th Ave.), $4,938 (Nob Court). SEWERS: Trio Construction Co., 257 10th E., Eugene, $14,114.

LB 8-8. Previous report 7-29

WATER LINE— Heppner, Ore.
(Estimated cost $100,000 to $120,000)

An engineering survey to determine cost estimates of six mi. of steel water feeder main has been authorized by the City Council, City Hall, Heppner. The main will extend from the city's wells on Willow Creek to the 1,000,000-gal. reservoir. When the survey is completed, voters will vote on a bond issue to finance construction. LC 8-13

● SAND SEAL— Kingsley Field, Ore.

Bids will be opened 10 a.m., August 22, by purchasing and contracting officer, 408th Fighter Group, Kingsley Field, for applying asphalt stabilized sand seal to P.O.L. diked areas at Kingsley Field, Klamath Falls; Inv. No. 59-3. Plans with above office. Removing debris; grading existing dikes; installing drainage pipe, catch basins, valves; covering area with 3" asphalt emulsion sand seal. ZZ 8-8

● RESURFACING, REMODEL LOADING DOCK— Klamath Falls, Ore.
(Estimated cost $4,000)

Bids are being sought from a selected list of bidders for resurfacing 100'x250' lot on which the offices and loading dock of Consolidated Freightways, W. H. Roemhildt, manager, 645 Broad St., Klamath Falls, are located. Contract will be let at the same time for remodeling of existing freight loading dock to reduce size from 40' to 20' width, 120' long, with 4" wood bumper. ZZ 8-8

★ INSTALL LIGHTING— Medford, Ore.

Award to Steek Electric Co., Box 1243, Medford, $40,242, by R. V. Hagan, airport manager, Medford Municipal Airport, Medword, for installation of high intensity lighting on both the main and cross runways at the Medford Airport. Plans by Ray W. Preston, consulting engineer, 1023 Cascade Bldg., Portland. LB 8-13. Previous report 8-7

■ LAUNCHWAY REPAIRS— Port Orford, Ore.

Planholders announced for launchway repairs at Port Orford Lifeboat Station in Port Orford, Ore.; Bid No. FS-1825. Bids will be opened 2 p.m., P.S.T., August 22, by 13th Coast Guard District, 618 2nd Ave., Seattle.

Planholders: E. R. Burrows, 1997 Newmark, Coos Bay; Sig Andersson, 8th and Washington, Coos Bay; D. E. Scott, Box 994, Port Orford; Palmberg Construction Co., Box 991, Astoria; Lillebo Construction Co., Box 365, Reedsport; Coos Bay Tug and Barge Co., Box 186, Coos Bay.

PD 8-9. Previous report 8-8

■ EXCAVATION— Portland, Ore.

Additional planholders announced for 45,600 c.y. unclassified excavation in Bonneville Pool, Columbia River between Vancouver Wash., and The Dalles, Ore.; CIVENG-35-026-59-13. Bids will be opened 2 p.m., August 20, by Corps of Engineers, Portland district, 628 Pittock Block, Portland.

Additional planholders: S. W. Groesbeck, Box 646, Eugene; Palmberg Construction Co., Box 991, Astoria; Quigg Bros.-McDonald, 1500 Riverside Ave., Hoquiam; Russell Espedel, 5906 N. Greeley, Portland; Trojan Powder Co., 1117 Yeon Bldg., Portland.

CG 8-8. Previous report 7-31

● ASPHALT KETTLE, MATERIAL LOADER— Portland, Ore.

Bids to be opened 2 p.m., August 19, by city purchasing agent, 208 City Hall, Portland for 1—165-gal. capacity asphalt kettle with liquid petroleum gas burner, trailer mounted for the Bureau of Maintenance, and 2—automotive type, material loader with one c.y. capacity bucket for the State Tax Street Fund. Plans with Bureau of Purchases, 208 City Hall. Certified check or bid bond 10%. DC 8-12

● BRIDGE TIMBER, ABUTMENTS— Portland, Ore.

Bids will be opened 11 a.m., P.S.T., August 21, by U.S. Forest Service, 729 N.E. Oregon St., room 215, Portland, for one each bridge timbers and abutments at the following sites: Jack Creek Bridge No. 1, Road 2415, fob bridge site at Davis Filat, 16 mi. off highway 97 from Diamond Lake junction, span 27', abutment height 6'; Camas Creek Bridge No. 611, road 3910, fob bridge site, Camas Creek, 12 mi. from Lakeview, span 27', 6' abutment height; Camas Creek Bridge No. 610, road 391, fob bridge site, Camas Creek, 10 mi. of Lakeview, 27' span, 7' abutment height. Specifications with above office. LB 8-12

● BANK PROTECTION— Portland, Ore.

Bids to be opened 2 p.m., P.S.T., September 4 by Corps of Engineers, 628 Pittock Block, Portland, for construction of derrick-stone revetment and rockgroins at Hayes Location along left bank of South Santiam River about two mi. westerly of Crabtree, Linn County, Willamette River Basin Project, Ore.; CIVENG-35-026-59-7. Bid bond 20%.

Quantities: 2,910 c.y. excavation; 2,050 c.y. derrick-stone in place; 4,760 c.y. quarried stone embankment; 2,200 c.y. embankment from gravel borrow. DM 8-8

● SUBSTATION STEEL— Portland, Ore.

Bids opening of August 12 extended to 2 p.m., P.S.T., August 19, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 62,625 lb. substation steel; Inv. No. 8844.

LB 8-9. Previous report 7-22

▲ GRADING, SURFACING— Portland, Ore.

Bids were opened August 7 by Multnomah County Commissioners, 504 County Courthouse, Portland, for 1—for grading and placing a hydraulic fill and 2—placing riprap and surfacing area for boat landing ramp and parking lot on the Columbia River at Marine Drive near N.E. 47th Ave., Portland.

LOW BIDS—1, Hydraulic Fill: General Construction Co., 4850 N.W. Front, Portland, $27,281. Completion time August 25. 2—Surfacing, Placing Riprap: Smith Bros., 3807 Fourth Plain Rd., Vancouver, $23,959. Completion time September 25.

DM 8-9. Previous report 7-25

▲ SPUR TRACK— Portland, Ore.

One bid was received by Port of Portland, 5484 N. Lagoon Ave., Swan Island, Portland, on August 6 for construction of a spur track at Swan Island Building No. 4. BID: A. D. Ford & Son, 2535 N.W. Upshur, Portland, $16,674 (basic bid), $17,789 (alternate with increased quantities). Engineer's estimate $16,616, $17,650.

Specifications called for 557 ties and miscellaneous rail fittings; 1,190' of spur track, building entrance; paving.

DC 8-9. Previous report 7-24

● FILTER AND SLURRY TANK— Portland, Ore.

Bids will be opened 2 p.m., August 18, by city purchasing agent, 208 City Hall, Portland, for filter and slurry tank, 150 gal. tank with agitator, pump and motors for the Bureau of Parks. Plans with above office. Certified check or bid bond 10%. DC 8-13

● FORK LIFT TRUCK— Portland, Ore.

Bids to be opened 2 p.m., August 20, by city purchasing agent, 208 City Hall, for gasoline powered fork lift truck, three-ton capacity, 120" lift, for the Bureau of Water Works. Plans with Bureau of Purchases, 208 City Hall. Certified check or bid bond 10%. DC 8-13

● AIR COMPRESSOR— Portland, Ore.

Bids will be opened 2 p.m., August 22, by city purchasing agent, 208 City Hall, Portland, for one 70 cfm air compressor, 15 hp motor, 120-gal. ASME tank for Bureau of Maintenance and Transportation. Certified check or bid bond 10%. WB 8-13

■ PLANTMIX PAVING— Portland, Ore.

Planholders announced for 5.488 mi. surfacing and 9.382 mi. plantmix bituminous paving on Umpqua Highway, Siuslaw National Forest, Douglas County, Ore.; FHP 8-A4, B4. Bids will be opened 10 a.m., August 19, by Bureau of Public Roads, 824 Morgan Bldg., Portland.

Planholders: Umpqua River Navigation Co., Reedsport; Dorman Construction Co., 2818 E. First St., Vancouver, Wash.; E. C. Hall Co., 11655 S.W. Barbur Blvd., Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Warren Northwest, Inc., Box 5072, Portland; S. D. Spencer, 4614 N.E. 72nd Ave., Vancouver, Wash.; J. C. Compton Co., U.S. National Bank Bldg., McMinnville; Central Paving Co., Box 38, Independence; Natt McDougall Co., 824 Pittock Block, Portland.

LC 8-13. Preivous report 8-5

● CULVERT PIPE— Portland, Ore.

Bids to be opened 3 p.m., P.S.T., August 18, by Bonneville Power Administration,

1001 N.E. Lloyd Blvd., Portland, for furnishing 36' of 48" culvert, 8-gauge, zinc coated and two connecting collars; Inv. 8864. Delivery time 10 calendar days, fob East Vancouver Warehouse, Vancouver, Wash.
DM 8-13

●**METAL GATE—** **Portland, Ore.**

Bids to be opened 2 p.m., P.S.T., August 28, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 40 metal gates, single swing, 50" minimum height to fit 16' gate opening, either tubular frame with metal fabric or metal panel type; Inv. 8862. Delivery, Evan Spur, Vancouver, Wash.
DM 8-13

■**PRINEVILLE DAM—** **Prineville, Ore.**

Planholders announced for construction of 790' long at crest, 180' high 153,000-acre ft. storage capacity, earth fill dam on the Crooked River about 21 mi. southeast of Prineville; Spec. No. DC-5047. Bids will be opened 10 a.m., P.S.T., August 26, by Bureau of Reclamation, in the courtroom of the Crook County Courthouse, Prineville. Specifications with W. L. Karrer, project construction engineer, Box 477, Prineville; H. T. Nelson, regional engineer, Box 937, Boise, Idaho; or Bldg. 53, Denver Federal Center, Denver, Colo.

Planholders: J. Bacaloff Co., 6009 N.E. 60th Ave.; Donald M. Drake Co., 1600 N.W. Savier St.; Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave.; R. A. Heintz Construction Co., 211 N.E. Columbia Blvd.; Babler Bros., 4617 S.E. Milwaukie Ave.; J. N. Conley, 4332 N.E. Royal Court; Erland & Blickle, Box 1945; Gibbons & Reed, Box 4989; Carl M. Halvorson, Inc., Box 1449; Natt McDougall Co., 824 Pittock Block; C. J. Montag & Sons, 7805 N.E. Halsey St.; Rogers Construction Co., 11760 N.E. Glisan St.; Fred H. Slate Co., Ore. Ltd., 7805 S.W. 40th Ave.; Valley Construction Co., 6100 N.E. Columbia Blvd.; Lord Bros., 9233 N. Calvert. Of Portland. E-W Construction Co., 3170 W. 11th Ave.; Hamilton & Thoms, Inc., Box 726; Earl L. McNutt Co., 351½ E. Broadway; C. H. Strong Engineering & Construction Co., Box 366. All of Eugene.

Keystone Construction Co., Box 458, Prineville; Ronald Lentz, 1412 T St., Sweet Home; Morrison-Knudsen Co., 212 S.E. First, Pendleton; Ausland Construction Co., Box 437, Grants Pass; Thomas J. Parker, 1067 Ashland Street, Ashland; Patton & Jackson, 1430 E. Part St., Grants Pass; C. R. O'Neil, Box 213, Myrtle Creek. Of Oregon.

Cheney Construction Co., Central Bldg.; A. J. Cheff, 10054 Marginal Way; Osberg Construction Co., 1132 N. 128th St. S.; Wayne Construction Co., 3810 Stone Way; S. S. Mullen, Inc., Box 3886; Northwest Grouting & Consolidation Co., 815 Blanchard St.; Alton V. Phillips Co., 4055 21st St. W.; Vickers, Inc., 623 Eighth Ave. S. Of Seattle.

O. R. Chase Co., Route 3, Auburn; Cherf Bros. & Sandkay Contractors, Inc., Box 938, Ephrata; Gibson & Roberts, Inc., Box 200, Yardley; Goodfellow Bros., Inc., Box 1337, Wenatchee; John P. Hopkins Co., Box 274, Mercer Island; Peter Kiewit Sons' Co., Box 1777, Vancouver; George W. Lewis Co., Box 696, Kennewick; Washington Utilities Construction Co., 1203 Regents Blvd., Tacoma; H. A. & J. A. Sewell, Box 325, Newport; John W. Stang Corp., Box 1392, Tacoma; White Bros. Construction Co., Box 376, Walla Walla. All of Washington.

Guy F. Atkinson Co., 10 W. Orange St.; Allan P. James Co., Inc., 430 Ninth St.; Miller & Ames, 206 Sansome St. Of San Francisco. Darkenwald Construction Co., Inc., Box 4175, Sacramento; S. O. Harper, 5800 Buena Vista Ave., Oakland; M. H. Hasler Construction Co., 458 S. Spring St., Los Angeles; Henry J. Kaiser Co., 1924 Broadway, Oakland; J. W. Briggs, 1825 California St., Redding; F. W. Case Corp., Box 1237, Newhall; John Delphia, Box 607, Patterson; Norman I. Fadel, Inc., Box 1084, Eureka; McCammon-Wunderlich Co., Box 359, Palo Alto; Macco Corp., 14409 S. Paramount Blvd., Paramount; A. A. Matthews, 117 E. Colorado St., Pasadena; Pacific Coast Engineering Co., Drawer E, Alameda; Vinnell Steel, Box 308, Irwindale; Winston Bros. Co., Box 411, Monrovia. Of California.

Adler Construction Co., 3405 S. Lincoln St., Englewood, Colo.; Boyles Bros. Drilling Co., 1321 S. Main St., Salt Lake City, Utah; Bud King Construction Co., 1203 Wyoming St., Missoula, Mont.; The Eimo Corp., 634 S. Fourth West St., Salt Lake City, Utah; Long Construction Co., Box 1875, Billings, Mont.; C. F. Lytle, Inc., Box 260, Colbran, Colo.; N. D. Robinson Construction Co., Box 466, Missoula, Mont.; Sprague & Henwood, Inc., Box 1446, Grand Junction, Colo; S. B. Bailey Co., Box 140, Milburn, N.J.; Condon-Cunningham, Inc., 4229 Lafayette Ave., Omaha, Neb.; Green Construction Co., 321 Locust St., Des Moines, Iowa; S. J. Groves & Sons Co., 500 Wesley Temple Bldg., Minneapolis, Minn.; Gulf Construction Co., Box 2611, Montgomery, Ala.; Royal Contracting Corp., Box 141, Bridgeport, Penn.; Guy James Construction Co., Box 9575, Oklahoma City, Okla.
LC 8-9. Previous report 8-8

★**DOCK EXTENSIONS—** **Roseburg, Ore.**

Award to Umpqua River Navigation Co., 255 N. 1st, Reedsport, $8,600, by Salmon Harbor Management Board of Douglas County in courthouse at Roseburg, for dock extensions and boat stall construction at Winchester Bay Tidelands Park and Boat Basin in Salmon Harbor.
LB 8-13. Previous report 8-12

★**STATE HIGHWAY PROJECTS—** **Salem, Ore.**

Awards announced by Oregon State Highway Commission, Salem, on highway construction on which bids opened July 29.

Award to Workman & Wilson, Canby, $128,470, for construction of a 350' bridge with reinforced concrete deck girder approaches and a 150' welded steel plate girder central span, over Siletz River at Logsden on Siletz-Logsden County Road, Lincoln County; FAP S-105(2).

Award to Sig Andersson, 1371 Bayview, North Bend, $128,803, for construction of a 210', 3-span reinforced concrete deck girder bridge with 350' of precast concrete beam approach spans on timber piles, North Fork Coquille River, northeast of Myrtle Point, Coos County; FAP S-374(2).
LB 8-9. Previous report 8-2

●**EXCAVATING, GRADING, STORM CULVERT—** **Salem, Ore.**

Bids will be opened 11 a.m., August 18, by Marion County Commissioners, Courthouse, Salem, for excavating, grading, paving and storm culvert installation of Filbert St. N.E. from Alder St. north two blocks and for Troy Ave. N.E. between Brooks and Filbert streets, Hicks-Jones Subdivision, Salem. Specifications with county engineer, above address. 10% bid bond.
LC 8-9

★**STATE HIGHWAY PROJECT—** **Salem, Ore.**

Award to R. H. Jones, Route 1, Box 258, Hillsboro, $51,505, by Oregon State Highway Commission, Salem, for constructing a 182', 3-span reinforced concrete deck girder bridge to carry county road (FAS 837) over Gales Creek, 2.5 mi. northwest of Forest Grove, Washington County; FAP DS-392(1). Bids opened July 29.
LB 8-9. Previous report 8-2

WASHINGTON

●**PUMPING STATIONS— Aberdeen, Wash.**

Bids will be opened 5 p.m., August 27, by City Clerk, City Hall, Aberdeen, for construction of six pumping stations throughout north and south Aberdeen in connection with the city's $2,500,000 pollution control and sewage disposal project. Plans with Stevens & Thompson, consulting engineers, 2234 S.W. Fifth Ave., Portland, Ore. $50 deposit. Bids will be taken on one, all or any combination of stations.
LC 8-8. Previous report 7-25

●**SEWAGE PUMPING STATIONS—** **Aberdeen, Wash.**

Bids to be received until 5 p.m., P.S.T., August 27, by City Clerk, City Hall, Aberdeen, and opened at 7:30 p.m. by City Council for construction of six sewage pumping stations and appurtenant work, for the city. Plans by Stevens & Thompson, consulting engineers, 2234 S.W. 5th, Portland. Certified check or bid bond 5%.

One 18" diameter reinforced concrete structure; three 15" structures; two smaller stations of rectangular design. Depths vary but contractor can use same forms for each class of station. The two small ones have one sewage ejector unit each which will be required to lift sewage from the city's interceptor system. The four pumping stations will have two pumps each plus comminution equipment and electrical controls.
DC 8-9

MERCURY-VAPOR LIGHTS— **Aberdeen, Wash.**

Bids will be called soon by City Council, City Hall, Aberdeen, on 22 mercury-vapor lights to be installed on Market St. and E. St. to the North Aberdeen Bridge.
DC 8-13

▲**WATER MAIN—Alderwood Manor, Wash.**

Four bids for Contract 1—replacement of supply main at Hall Lake and five bids on Contract 2—furnishing, installing supply main along 208th S.W. from Wells 1 and 2 to Highway 99, involving 6,400' of pipe, were received August 11 by Alderwood Water District. BIDS: C & H Construction Co., 1129 21st N., $10,501 (Contract 1), $25,301 (Contract 2); Argentieri & Colarossi, 1815 Jackson St., $11,351, $25,237; Mallory & Compton, Inc., 13751 Aurora Ave., $11,447, $26,732; Superior Construction Co., 4610 37th S.W., $12,407, $27,497; A. Jakoboni, 5232 49th S.W., $23,580 (Contract 2 only). All of Seattle.
PD 8-13. Previous report 8-9

OILING— **Almira, Wash.**

Voters in Almira will consider a 20-mill levy at the September 9 election, which would raise $8,200 to finance oiling of several city streets. Mayor Duane White, City Hall, Almira, estimates the cost to be $1.05 per running foot.
MH 8-5

TRUNK SEWER— **Bellevue, Wash.**

Bids opening postponed until later in summer by Lake Hill Sewer District, Thomas A. Kilburn, secretary, 15450 Lake Hills Blvd., Bellevue, for furnishing and installing a trunk sewer in sewer system for above district. Plans by Howard T. Harstad & Associates, consulting engineers, 2512 2nd Ave., Seattle. Bids were to have been opened August 21 (PCD 8-5).
PD 8-8. Previous report 8-5

●**SEWER TANK, PUMP— Bellevue, Wash.**

Bids will be opened 3 p.m., August 25, by Bellevue Sewer District, S.E. 6th St. (Box 598), Bellevue, for replacing two existing pumps and furnishing and installing an 11'x11'x13' high underground concrete tank adjacent to Overlake Drive at Bellevue-Medina boundary. Plans and specifications with R. W. Beck & Associates, consulting engineers, 1505 Tower Bldg., Seattle. $10 deposit. Certified check, 5%.
PD 8-13

★**FISHWAY—** **Castle Rock, Wash.**

Award to low bidder, Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, Ore., $20,000, by State Department of Fisheries, room 417-H, General Administration Bldg., Olympia, for constructing a reinforced concrete fishway on Delameter Creek, about five mi. west of Castle Rock in Cowlitz County.
PD 8-8. Previous report 7-29

IMPROVEMENTS TO WATER SYSTEM, STREET— **Castle Rock, Wash.**

L. C. Gibbs, civil engineer, Winlock, has been retained by City Council, City Hall, Castle Rock, to survey needs of the city as to modernization and enlargement of water system and improvements of streets and alleys.
MH 8-5

WATER SYSTEM EXPANSION— **Cheney, Wash.**

(Estimated cost $175,000)

A preliminary survey is being made by Washington State College engineers on expansion of the water system in Cheney. Aid will be asked of state and federal agencies for studying and advancing the project. Kyle Pugh, utilities superintendent, City Hall, Cheney, has outlined the city needs

as follows: new 550' well; large pump; about 1,700' of 12" water main; 15,010' of 6" and 8" water main. MH 8-8

■ **BRIDGES—** **Columbia River, Wash.**

Additional planholders announced for constructing one concrete and one timber bridge, excavation of 144,000 c.y. from channel, placement of about 65,900 tons riprap liner in channel, excavation of 3,500 c.y. roads, paved areas; borrow of 5,000 c.y. for roads; paved areas; 1,000 ton asphaltic concrete for paving; 180' culvert pipe; 3,000' chain link fencing; lighting system; building relocation, Foster Creek Channel, Chief Joseph Dam, Columbia River; ENG-45-108-58-49. Bids will be opened 2 p.m., P.S.T., August 14, by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle.

Additional planholders: Stoen Construction Co., 2210 E. 95th St., Seattle; J. Bacaloff Co., 6009 N.E. 60th Ave., Portland, Ore.; J. N. Conley, 4332 N.E. Royal Court, Portland; J. W. Hardison Co., 4910 Richey Road, Yakima; Rock Mountain Construction Co., Box 1033, Missoula, Mont.; Neukirch Bros., 745 Bellevue Ave. N., Seattle; West Coast Construction Co., 835 W. 48th, Seattle; Harbert Bros., 1072 E. Main St., Springfield, Ore.; Hodges & Barger, Box 35, The Dalles; John L. Jersey, Inc., 3647 S.E. 34th Ave., Portland; Syblon-Reid Construction Co., Box 63, Warden; Thompson Construction Co., 3319 10th Ave. W., Kenewick; Otis Williams & Co., Box 1193, Kennewick.

LC 8-13. Previous report 7-23

■ **PLANTMIX BITUMINOUS PAVING—** **Colville National Forest, Wash.**

Planholders announced for plantmix bituminous paving 11.922 mi. on Republic-Kettle Falls Highway, Ferry County, Colville National Forest, FHP 20-B3, D2, F3, G3, H3, L3, M2. Bids will be opened 10 a.m., August 20, by Bureau of Public Roads, 824 Morgan Bldg., Portland.

Planholders: S. D. Spencer, 4614 N.E. 72nd Ave., Vancouver; Charles Shannon Co., 502 S. Washington, Butte, Mont.; J. Arlie Bryant and Clarence Braden, 3716 Skyview, Spokane; J. C. Compton Co., U.S. National Bank Bldg., McMinnville, Ore.

LC 8-13. Previous report 8-6

▲ **WATER, SEWER SYSTEMS—** **Coulee Dam, Wash.**

Schoenberg & Kaiser, Chewelah, $12,556 ($7,642 water system, $4,914 sewer) submitted the low bid to Coulee Dam National Recreation Area, Coulee Dam, for construction of water and sewer systems at Kettle Falls area, Coulee Dam National Recreation Area, Coulee Dam. Bids opened July 29. Contract expected to be awarded soon.

LB 8-8. Previous report 7-26

▲ **EARTHWORK, PAVING—** **Ellensburg, Wash.**

One bid received, that of Don Akins, 320 Railroad, Ellensburg, $25,830, by General Administration Department, 218 General Administration Bldg., Olympia, for earthwork and construction of curbs, sidewalks, asphalt concrete paving at Central Washington College of Education at Ellensburg. Bids opened August 6.

DE 8-9. Previous report 7-29

▲ **FISH COUNTING STATIONS—** **Ephrata, Wash.**

The only bid, that of Northern Steel and Supply Co., 154 A St. S.E., Ephrata, $17,274, was rejected by Grant County Public Utility District No. 2, Ephrata, for facilities for fish counting stations on the right and left banks of the Columbia River. Bid was $12,000 above engineer's estimate. LB 8-8

● **EARTHWORK, STRUCTURES—** **Ephrata, Wash.**

Bids will be opened 10 a.m., P.S.T., September 18, by Bureau of Reclamation, Box 368, Ephrata, for 1—earthwork for 41 mi. of unlined laterals, wasteways and drains, 2—earthwork for and construction of about 15 mi. of earth-lined laterals, 3—earthwork for and construction of structures along waterway for Royal Branch canal laterals, Block 82, Columbia Basin Project, east of Vantage, Wash., in Grant County; Spec. No. DC-5093. Plans with above office and with the bureau in Bldg. 53, Denver Federal Center, Denver, Colo. Bid bond 10%.

Quantities: 1,060,000 c.y. excavation; 140,000 c.y. earth lining of laterals; 2,300 c.y. concrete in structures; 1,490' corrugated metal pipe; 14,400' concrete pipe. Completion time 520 days. DM 8-13

★ **WATER WELL—** **Fairfield, Wash.**

Award to Midland Drilling Co., Walla Walla, $5,905, by City Council, City Hall, Fairfield, for drilling a new town well. Completion time December. Only other bidder was Oliver F. Zinkgraf, E. 1606 Sharp, Spokane, $5,924. MH 8-13

● **SPRINKLER SYSTEM—** **Geiger AFB, Wash.**

Bids will be opened 2 p.m., September 4, by U.S. Air Force, procurement office, Geiger AFB, for installation of an underground water sprinkler system at Geiger Air Force Base; IFB 45-614-59-11. Plans with above office.

Planholders: Washington Turf & Irrigation Co., S. 168 Madison; Audubon Garden Supply, 2625 Northwest Blvd.; Adams & Lettie Plumbing & Heating, N. 1329 Howard; Sandelius Landscaping, W. 1807 Fairview; Burnett Plumbing & Sprinkler, E. 3527 Sprague; McClintock & Turk, N. 3812 Division; James Smyth Plumbing & Heating, N. 216 Division; Roberts-Inman, N. 1418 Division; Spokane Plumbing & Heating, N. 613, Monroe; Warren, Little & Lund, W. 120 2nd; Senna Service, W. 732 Napa. All of Spokane. LL 8-9

▲ **DISTRIBUTION LINE—Geiger AFB, Wash.**

Bids received by U.S. Air Force, procurement office, Geiger AFB, for modification of electrical distribution system from a 4,160 v four-wire system to a 13,200 v four-wire distribution system involving reinsulation of existing 4,160 v system; removal and replacement of existing transformers with new transformers, construction of a new small substation, replacement of primary and secondary distribution, line extensions, and replacement of poles, at Geiger Air Force Base; IFB 45-614-59-1. Bids opened August 6. LOW BIDS: Power City Electric, 920 N. Howard, $22,949; R. C. Hughes, N. 2105 Airport Road, $23,900; Northside Electric, 2514 N. Division, $24,189. All of Spokane.

LL 8-9. Previous report 7-15

● **BITUMINOUS SURFACING—** **Gifford Pinchot National Forest, Wash.**

Bid opening that was scheduled for August 21 on the Washington Forest Highway Project 16-C on Lewis River Highway, has been postponed by Bureau of Public Roads, 824 Morgan Bldg., Portland, until the strike has been settled. The project involves grading, bituminous surfacing on 4.687 mi. Lewis River Highway, Cowlitz County, Gifford Pinchot National Forest, Wash.

DM 8-8. Previous report 8-7

● **EXCAVATION, PAVING—** **Grandview, Wash.**

Bids will be opened 8 p.m., August 19, by City Council, City Hall, Grandview, for 6,200 c.y. excavation (sched. 1), 20,800' concrete curbs and aprons (sched. 2) and 5,300 c.y. ballasting, 2,660 c.y. surfacing and 5,400 tons type I-1 asphaltic concrete paving (sched. 3). Plans with Beverly McCall, clerk, above address. Bids accepted on any or all schedules. Job also includes 400' of 8" concrete irrigation pipe; 100' of 8" concrete culvert. MH 8-13

▲ **CONTROL HOUSE, WATER SYSTEM—** **Grant County, Wash.**

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of the control house, and water supply system at Larson Substation, east side of County Road No. 668, four mi. north of Moses Lake, Grant County; Inv. No. 8832. Bids opened August 8. BIDS: Joe E. Venne, 507 12th St., Sunnyside, $29,387; Mann Construction Co., Box 577, Redmond, $30,717; Knapton & Yearout, Star Route, Moses Lake, $31,349; H. B. Nesheim, 6714 36th S.W., Seattle, $32,415; Fairbanks Construction Co., Herald Bldg., Moses Lake, $32,814; K. C. Dack, Box 38, Moses Lake, $40,715; Sceva Construction Co., N. 2928 Madelia, Spokane, $41,910.

LC 8-13. Previous report 7-17

■ **POWERHOUSE COMPLETION—** **Ice Harbor Lock and Dam, Wash.**

Planholders announced on completion of power house at Ice Harbor Lock and Dam, Walla Walla and Franklin counties, Wash.; CIVENG-45-164-59-3. Bids will be opened 2 p.m., P.S.T., September 19, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla. The dam site is located on Snake River about 10 mi. upstream from confluence of Columbia River.

Planholders: E. L. Lane Corp., Box 417, Palo Alto, Calif.; American Pipe and Construction Co., Box 1898, Portland, Ore.; Carl M. Halvorson, Inc., Box 1449, Portland; Jelco, Inc., 421 W. 13th S., Salt Lake City, Utah; P. S. Lord Mechanical Contractors, 4507 S.E. Milwaukie, Portland; Montag, Halvorson, Austin & Associates, Box 666, Pasco; J. A. Jones Construction Co., Medical Arts Bldg., Seattle; Morrison-Knudsen Co., Inc., 908 Hoge Bldg., Seattle; Curtis Construction and Gravel Co., Box 106, Spokane; Warren, Little & Lund, W. 120 2nd, Spokane; Tullar Power Construction, Inc., Box 4051, Seattle; Anderson Construction Co., Inc., Central Bldg., Seattle; Hartwell Dam Contractors, 662 Russ Bldg., San Francisco, Calif.; Rosendahl Corp., 11933 Wilshire Blvd., Los Angeles, Calif.

Trinity Dam Contractors, Box 248, Lewiston, Calif.; Green Construction Co., 928 Securities Bldg., Seattle; Wismer & Becker, 1731 S St., Sacramento, Calif.; Guy F. Atkinson, 10 W. Orange, South San Francisco, Calif.; A. J. Peters & Son, Box 622, San Jose, Calif.; Eichleay Corp., 1180 Richard Ave., Santa Clara, Calif.; Donovan Construction Co., 333 Griggs-Midway Bldg., St. Paul, Minn.; Peter Kiewit Sons' Co., 1024 Omaha National Bank Bldg., Omaha, Neb.; J. P. Hopkins Co., Inc., Box 247, Mercer Island; Montag-Halvorson-Cascade-Austin, Box 4, The Dalles, Ore.; Eagle Construction Co., Box 181, Loveland, Colo.; Brown & Root, Inc., Box 3, Houston, Tex.; Arnold & Jeffers, Box 2192, Spokane.

DM 8-13. Previous report 7-21

● **RELOCATE RAILWAY FACILITIES—** **Kanaskat, Wash.**

Bids will be opened for the second time 2:15 p.m., P.S.T., August 28, by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for relocation of Northern Pacific Railway Facilities, Kanaskat and Eagle Gorge Stations, approximately eight mi. upstream from Kanaskat; CIVENG-45-108-59-7. Plans with above office. Bid bond 20%.

Description—KANASKET: Relocate existing buildings and structures; construct Kanaskat station, track scale and scale house; construct unloading platform; water lines; sanitary sewer system; exterior electrical work; 700 c.y. grading; gravel surfacing; asphaltic concrete paving; 520' concrete curb. EAGLE GORGE: construction of Eagle Gorge station; construct operator's quarters; pump house; water lines; sanitary sewer system; grubbing; 1,000 c.y. grading.

Bids were previously opened on July 15 with three bids received. Low bid was Wayne Construction Co., Inc., 3810 Stone Way, Seattle, $112,870. Engineer's estimate $81,290. LB 8-12. Previous report 7-16

RESERVOIR— **Kennewick, Wash.**

(Estimated cost $350,000)

Plans are underway by Tim DeJong, city engineer, City Hall, Kennewick, for a 15,000,000-gal. reservoir to be constructed on city property where a small tank now stands near the south end of Edison St. The proposed structure would be 300' in diameter and 30' high with concrete slab roof. DC 8-13

● **PAINTING TOWERS—** **Moclips, Wash.**

Bids will be opened 2 p.m., P.S.T., August 25, by 13th Coast Guard District, 618 2nd Ave., Seattle, for painting and repairing 300' of antenna towers at Cape Blanco Loran Transmitting Station, Sixes, Oregon, and Point Grenville Loran Transmitting Station, Moclips; FS-1826. Plans with above office. 5% bid bond. LB 8-

WATER SUPPLY LINES—
Mountlake Terrace, Wash.

Revenue bond issue for $300,000 will be voted upon in September 9 primary election by Mountlake Terrace, to finance purchase of portion of Alderwood Water District which lies within city limits of the Terrace. If funds are acquired, the city will install approximately 6,000' of 12", and 2,000' of 8" and 6" water line throughout the city's system for improvement of water flows and pressures, and water storage tanks to hold approximately 500,000 gallons. PD 8-13

▲CONSTRUCT BRIDGE—
Okanogan County, Wash.

Eight bids received by U. S. Forest Service, 729 N.E. Oregon St., Portland, Ore., for construction of War Creek Bridge, about 15 mi. west of Twisp, on Okanogan National Forest. The 120' bridge will cross Twisp river on War Creek Road. Bids opened August 4. BIDS: Curtis Construction Co., Route 1, Box 2, Granite Falls, $21,693; Federal Construction Co., E. 3420 Sprague, Spokane, $21,993; Mann Construction Co., Box 577, Redmond, $22,849; Walter N. Jackson, 735 Ruth Ave., Hermiston, $25,276; Vandivort Construction Co., Box 1647, Wenatchee, $26,707; Paul Weisner, Box 138, Wenatchee, $28,102; Russell-Gillett Co., Box G, Cle Elum, $29,040; Ruud Construction Co., 602 Realty Bldg., Spokane, $31,590.
LC 8-8. Previous report 7-31

■STATE HIGHWAY PROJECTS—
Olympia, Wash.

Planholders announced on 16 highway construction projects on which bids will be opened 10 a.m., August 19 by Washington State Highway Commission, Transportation Bldg., Olympia.

PAVING, SSH 5-K Interchange and Jct. PSH No. 1 to Klaus—Clearing, draining, grading, constructing bituminous surface treatment and cement treated base, asphaltic concrete paving, signing, installing illumination on 2.282 mi. SH Nos. 1 and 5-K, Lewis County; FAP No. I-5-2(35)68 and FAS No. S-0257(3).

Planholders: J. Arlie Bryant Inc. and Clarence Braden, 3716 Skyview Drive, Spokane; J. N. Conley, 4332 N.E. Royal Court, Portland, Ore.; Natt McDougall Co., 823 Pittock Block, Portland; G. S. Electric Co., 3010 67th S.E., Mercer Island; Line Material Industries, 700 W. Michigan, Milwaukee, Wis.; Olson Electric Co., Box 830, Vancouver; Bocek Bros., Box 666, Hoquiam; Herman Hatfield, 305 Yew, Centralia; W. B. Graham & Sons, 984 North St., Chehalis; Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver; S. D. Spencer & Sons, 4614 N.E. 72nd, Vancouver.

RETAINING WALL, Sunset Lodge Vicinity—Draining, grading, constructing concrete retaining wall on 0.309 mi. PSH No. 2, Kittitas County; FAP No. I-90-2(17)55.

Planholders: Strong & Macdonald Inc., 4045 Ruston Way, Tacoma; S. W. Groesbeck, Box 646, Eugene, Ore.; J. N. Conley, 4332 N.E. Royal Court, Portland; Natt McDougall Co., Pittock Block, Portland; Osberg Construction Co., 1132 N. 128th, Seattle; P. G. Ellis, 4710 University Way, Seattle; Murphy Bros. Inc., E. 3728 Broadway, Spokane; C. E. Oneal Inc., Box 370, Ellensburg; Russell-Gillett Co., Box G., Cle Elum; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; Alfred De Coria, Box 241, Auburn; Max J. Kuney Co., N. 120 Ralph, Spokane; W. L. Rufener Inc., 4829 S.E. Ash, Portland.

PAVING, Jct. SSH No. 2-J to 41st St. in Everett—Draining, surfacing, constructing bituminous surface treatment and cement treated base, asphaltic concrete paving on 3.008 mi. PSH No. 1, Snohomish County; FAP No. I-5-4(11)189.

Planholders: Permanente Cement Co., 5975 E. Marginal Way, Seattle; Associated Sand and Gravel Co., Box 914, Everett; Northwest Steel Rolling Mills Inc., 4315 9th N.W., Seattle.

SURFACING, East Beach Road to Indian Creek—Clearing, draining, grading, select roadway borrow surfacing, constructing reinforced concrete cribbing on 1.327 mi. PSH No. 9, Clallam County; FAP F-007-3(6).

Planholders: Osberg Construction Co., 1132 N. 128th, Seattle; Strong & Macdonald Inc., 4045 Ruston Way, Tacoma; Valley Construction Co., 6100 N.E. Columbia Blvd., Portland; J. N. Conley, 4332 N.E. Royal Court, Portland; Erickson Paving Co., 14446 Sunset Highway, Bellevue; S. W. Groesbeck, Box 646, Eugene, Ore.; Peter Kiewit Sons' Co., Box 1777, Vancouver; Natt McDougall Co., Pittock Block, Portland; Thomas Scalzo Co., 3211 Airport Way, Seattle; J. J. Welcome Construction Co., Box 641, Redmond; Beuter & O'Neil and C. W. Thomas & Son, Box 402, Winlock; N. Fiorito Co. Inc., 844 W. 49th, Seattle; Northwest Construction Co., 3950 6th N.W., Seattle; Owens Bros., Box 551, Port Angeles; Fiorito Bros., 1100 Leary Way, Seattle; Goodfellow Bros. Inc., Box 1337, Wenatchee; Louis Elterich Co., Box 868, Port Angeles; Shirley G. Stone Co. and George Blaisdell & Sons, 2351 S.W. Market Road, Oswego; Bocek Bros., Box 666, Hoquiam; P. J. Anderson & Sons, 13501 Aurora, Seattle; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver.

PAVING, Deer Lake vicinity to Lone Lake Road—Clearing, draining, grading, surfacing, asphaltic concrete paving and bituminous surface treatment on 5.001 mi. SSH No. 1-D, Island County; FAS DS-0211(3).

Planholders: Osberg Construction Co., 1132 N. 128th, Seattle; Strong & Macdonald Inc., 4045 Ruston Way, Tacoma; J. N. Conley, 4332 N.E. Royal Court, Portland; Erickson Paving Co., 14446 Sunset Highway, Bellevue; S. W. Groesbeck, Box 646, Eugene, Ore.; Peter Kiewit Sons' Co., Box 1777, Vancouver; Thomas Scalzo Co., 3211 Airport Way, Seattle; J. J. Welcome Construction Co., Box 641, Redmond; Pieler Construction Co. Inc., 300 Spokane, Seattle; N. Fiorito Co. Inc., 844 W. 49th, Seattle; Northwest Construction Co., 3950 6th N.W., Seattle; Wilder Construction Co. Inc., Bellingham; Fiorito Bros., 1100 Leary Way, Seattle; Shirley G. Stone Co. and George Blaisdell & Son, 2351 S.W. Market Road, Oswego; Bocek Bros., Box 666, Hoquiam; P. J. Anderson & Sons, 13501 Aurora, Seattle; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; S. D. Spencer & Sons, 4614 N.E. 72nd, Vancouver.

PAVING, Jct. PSH No. 1 to Ainsworth Ave.—Clearing, draining, grading, bituminous surface treatment and cement treated base, asphaltic concrete paving, contsructing reinforced concrete bridge, fencing and signing on 0.795 mi. SSH No. 5-G, Pierce County; FAS No. DS-0238(1) Unit 1.

Planholders: Lige Dickson Co., 3315 S. Pine, Tacoma; Strong & Macdonald Inc., 4045 Ruston Way, Tacoma; Woodworth & Co. Inc., 1200 E. D St., Tacoma; J. N. Conley, 4332 N.E. Royal Court, Portland; Erickson Paving Co., 14446 Sunset Highway, Bellevue; S. W. Groesbeck, Box 646, Eugene, Ore.; Peter Kiewit Sons' Co., Box 1777, Vancouver; Thomas Scalzo Co., 3211 Airport Way, Seattle; Asphalt Paving and Engineering Co., Box 356, Tacoma; J. J. Welcome Construction Co., Box 641, Redmond; N. Fiorito Co. Inc., 844 W. 38th, Seattle; Dale M. Madden, 3010 E. 163rd, Seattle; Northwest Construction Co., 3950 6th N.W., Seattle; Sawyer Construction Co., Route 3, Box 298, Tacoma; Ostruske-Murphy Inc., 1515 Center, Tacoma; C. W. Bignold, Box 126, Elma; Bocek Bros., Box 666, Hoquiam; P. J. Anderson & Sons, 13501 Aurora, Seattle; Concrete Construction Co., 2015 Center, Tacoma; The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver.

BITUMINOUS SURFACING, Brender Park to Sleepy Hollow—Clearing, draining, grading, bituminous surface treatment, signing on 2.658 mi. PSH No. 2, Chelan County; FAP DF-028-1(18).

Planholders: Materne Bros. Co., Box 7052, Spokane; Osberg Construction Co., 1132 N. 128th, Seattle; Strong & Macdonald Inc., 4045 Ruston Way, Tacoma; Peter Kiewit Sons' Co., Box 1777, Vancouver; Natt McDougall Co., Pittock Block, Portland; Charles R. Watts Co., 4121 6th N.W., Seattle; J. Arlie Bryant Inc. and Clarence Braden, 371 Skyview Drive, Spokane; C. O. Oneal Inc., Box 270, Ellensburg; R. H. Sussex, 2851 S.E. 124th, Bellevue; Goodfellow Bros. Inc., Box 1337, Wenatchee; Maurice Gredvig, Box 301, Yakima; Murphy Bros. Inc., E. 3728 Broadway, Spokane; Sather & Sons, N. 1410 Howe, Yardley; Graves & Burke and Anson & Co., Box 119, Wenatchee; Carl Hohner & Sons Inc., 730 W. Chelan, Spokane; Russell-Gillett Co., Box G., Cle Elum; Ray Weist, Contractor, Box 191, Yakima; P. J. Anderson & Sons, 13501 Aurora, Seattle.

BRIDGE, G.N. R.R. Overcrossing at Ephrata—Reinforced concrete slab bridge on 0.035 mi. SSH 11-G, Grant County; FAP FG-045-2(7).

Planholders: Hans M. Skov Construction Co., Liberty Bldg., Yakima; Paul L. Wiesner, Route 6, Box 6428, Wenatchee; Cherf Bros. Inc. and Sandkay Contractors Inc., Box 938, Ephrata; Charles A. Power, Box 1220, Spokane; Algoma Construction Ltd. and Trans-West Construction Inc., Box 358, Moses Lake; George Pfeiffer, Box 965, Othello; Sather & Sons, N. 1410 Howe, Yardley; Russell-Gillett Co., Box G., Cle Elum; Walter G. Meyers & Son, Box 5011, Spokane.

ILLUMINATION, North Fort Lewis to Ponders—Install illumination on PSH 1, Pierce County; FAP No. I-IG-5-3(29)121, Unit 2.

Planholders: Cable Construction Co., 1512 Center, Tacoma; The Electric Construction Co. of Tacoma Inc., 1650 Center, Tacoma; Jardeen Electric Co., 1232 S. Sprague, Tacoma; G. S. Electric Co., 3010 67th S.E., Mercer Island; Rochat Electric, 4636 N. Williams, Portland; Charles R. Watts Co., 4121 6th N.W., Seattle; Carl T. Madsen Inc., 808 N. 12th, Tacoma; Olson Electric Co., Box 830, Vancouver.

SIGNING, Mud Bay to Tumwater—Signing on 4.637 mi. PSH 9, Thurston County; FAP F-007-5(13).

Planholders: National Advertising Co., Box 1885, Vancouver; Traffic Control Signs Co., 3011 S. Chandler, Tacoma; Charles R. Watts Co., 4121 6th N.W., Seattle; Vancouver Sign Co., 6615 Pacific Highway, Vancouver; Traffic Safety Supply Co., 2636 N.E. Sandy Blvd., Portland.

PAVING, 140th Ave. N.E.—N.E. 205th St. to SSH 2-D—Clearing, draining, grading, asphaltic concrete paving 3.362 mi. King County road; FAS S-0860(2).

Planholders: Washington Asphalt Co., 309 W. 39th, Seattle; Thomas Scalzo Co., 3211 Airport Way, Seattle; J. J. Welcome Construction Co., Box 641, Redmond; Excavators Inc., 5756 29th N.E., Seattle; Morrison-Cecotti, Box 388, Mount Vernon; Northwest Construction Co., 3950 6th N.W., Seattle; S. H. Edinger Gravel Co., Box 283, Kenmore; P. J. Anderson & Sons, 13501 Aurora, Seattle; Kent & Tucker Inc., 1431 134th N.E., Bellevue; Lake City Gravel and Materials Inc., 10728 Bothell Way, Seattle.

BRIDGE, Wishkah River Bridge - South Approach—Draining, grading, constructing precast concrete bridge approach on 0.113 mi. Grays Harbor County road; FAS S-0487(4).

Planholders: The Hart Construction Co., 3536 E. 11th, Tacoma; Owens Bros., Box 551, Port Angeles; Quigg Bros.-McDonald Inc., 1500 Riverside, Hoquiam; L. B. Foster Co., Box 548, Carnegie, Pa.; Bocek Bros., Box 666, Hoquiam.

PLANTMIX PAVING, Arcadia Road — Clearing, draining, grading, bituminous plantmix paving 1.449 mi. Mason County Road; FAS-S-0529(1).

Planholders: George M. Grisdale Construction Co., Box 509, Shelton; Beuter & O'Neil and C. W. Thomas & Son, Box 402, Winlock; J. M. Bruch, Route 3, Box 504, Port Angeles; Excavators Inc., 5756 29th N.E., Seattle; C. W. Bignold, Box 126, Elma; Bocek Bros., Box 666, Hoquiam.

PAVING, Washougal River Road — Asphaltic concrete paving 0.511 mi. Skamania County road; FAS S-0619(1).

Planholders: The United Contracting Co., Box 5075, Portland; Smith Bros. Inc., 3801 4th Plain Road, Vancouver; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver.

CEMENT CONCRETE PAVING, Carney Road Intersection—Draining, grading, bituminous surfacing treatment, cement concrete paving, asphaltic concrete paving, installing illumination on 0.292 mi. PSH 1, Thurston County; a State Project.

Planholders: Pacific Car and Foundry Co., 4th and Factory Sts., Renton; G. S. Electric Co., 3010 67th S.E., Mercer Island; Rochat Electric; 4736 N. Willaims, Portland; Nisqually Sand and Gravel, McKenna; Olson Electric Co., Box 830, Vancouver.

STOCKPILING, Hamma Hamma Vicinity—Stockpiling 16,500 ton crushed materials on PSH 9, Mason County; a State Project.

Planholders: J. Arlie Bryant Inc. and Clarence Braden, 3716 Skyview Drive, Spokane; S. H. Edinger Gravel Co., Box 283,

Kenmore; Lake City Gravel and Materials Inc., 10728 Bothell Way, Seattle.
DM 8-12. Previous report 8-6, 8-1

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Awards announced by Washington State Highway Commission, Olympia, for highway construction on which bids were opened on July 29.

Award to Richard L. Martin Co., Box 482, Oswego, $161,201, for constructing a precast, prestressed concrete girder bridge, Longview Wye Undercrossing, PSH 1, Cowlitz County; FAP I-5-1(19)37.

Award to Interstate Paving Co., 715 E. 18th, The Dalles, Ore., $15,360, for grading, surfacing, asphaltic concrete paving, 0.135 mi. Main St.-Town of White Salmon, Klickitat County; FAS DS-0399(1).
LC 8-8. Previous report 7-31

PLAYGROUND— Pasco, Wash.

Development of the proposed playground at Pearl and Meridian in northwest Pasco will not be undertaken until the spring of 1959. Plans call for underground water system, backstop, playground equipment and grass.
DC 8-8

GOLF COURSE (Grading)— Pasco, Wash.

Construction underway for rough grading for the Pasco Municipal golf course by E. L. Standley, contractor, 719½ W. Court, Pasco. A total of seven bids were submitted. Bids were opened by the City Council, City Hall. Total cost of the golf course will be $170,000.
MH 8-13

SEWER SYSTEM— Rockford, Wash.

Costs and possibilities of a new sewer system will be investigated by the City Council, City Hall, Rockford.
MH 8-13

★WATER MAIN— Seattle, Wash.

Award to Imhoff Construction Co., Route 1, Box 224, Buckley, $39,812, by King County Water District No. 79, 18120 68th Ave. N.E., Kenmore, for furnishing and installing 13,400' of 4" and 6" dipped and wrapped steel water main, 34 gate valves, and 27 fire hydrant assemblies. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. LB 8-8. Previous report 8-6

★LATERAL SEWERS (Contracts 1, 2, 3, 4 and 5)— Seattle, Wash.

Awards announced by Lake City Sewer District, 12721 30th N.E., Seattle, for construction of 50,550' of 7" to 10" (contract 1), 42,662' of 6" to 18", (Contract 2) 43,375' of 6" to 24" (Contract 3) 34,270' of 6" to 15" (Contract 4) and 43,470' of 6" to 18" (contract 5) pipe sewer, for the sanitary-sewer system of the district, in ULID No. 3. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. AWARDS—CONTRACT 1: Ace Construction Co., 7516 Roosevelt Way, $377,781. CONTRACT 2: Matt Malaspina & Co., 1901 23rd S., $298,070. CONTRACT 3: Hanson Construction Co., 922 N. 127th, $447,374. CONTRACT 4: Valley Construction Co., 7722 Rainier Ave., and Morrison-Knudsen, Hoge Bldg., joint venture, $255,512. CONTRACT 5: Lundberg Construction Co., 3420 13th S.W., $299,063. All of Seattle.
LB 8-8. Previous reports 7-8, 9, 12, 16, 19

▲WATER MAIN— Seattle, Wash.

Five bids received at August 7 bid opening by King County Water District No. 61, 10402 16th Ave. S.W., Seattle, for installing 8,500' of 6" and 4" cast iron water main, fire hydrants, pressure reducing stations, fittings and appurtenances. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. LOW BID: Lario Libri, 5960 Empire Way, Seattle, $37,153. OTHER BIDS: Shoreline Construction Co., 12519 15th N.E., Seattle, $38,550; C & H Construction Co., 1129 21st Ave. N., Seattle, $40,200; Kendall Construction Co., 3211 Center, Tacoma, $46,819; Frank Coluccio Construction Co., 7778 Seward Park Ave., Seattle, $47,333.
PD 8-12. Previous report 8-5

▲SQUARING SHEAR, TRANSFORMERS— Seattle, Wash.

Five bids received for furnishing one power squaring shear, and eleven bids for transformers, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle. LOW BIDS—SHEAR: Hallidie Machinery Co., 210 Hudson, $15,230; West Coast Machinery Co., 2707 1st S., $16,650. TRANSFORMERS: General Electric Co., Dexter Horton Bldg., $34,449; Joslyn Pacific Co., 2424 1st S., $35,180. Of Seattle.
PD 8-12. Previous report 7-26

★TRUNK SEWER Seattle, Wash.

Award to Murphy Bros., Inc., 18537 29th N.E., Seattle, $388,601, by Lake City Sewer District, 12721 30th Ave. N.E., Seattle, for construction of 13,415' of 6" to 30" pipe sewer, including 33 manholes and 41 standard manholes, in ULID No. 3, to become integral part of sanitary-sewer system of the district. Plans by Hill & Ingman, 3104 Western Ave., Seattle.
LB 8-8. Previous report 7-2

● NETWORK TRANSFORMER PROTECTOR— Seattle, Wash.

Bids will be opened 10 a.m., August 18, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 5 of 500-kva network transformers, Spec. No. 1466; and for furnishing 5 of 1,600 amp. 125/216Y volts network protectors, Spec. No. 1453. Separate contracts for protectors and for transformers. Specifications with above office.
PD 8-8

★ALUMINUM SHEETS— Seattle, Wash.

Award to Eagle Metals Co., 4755 1st Ave. S., Seattle, $1,250, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1,000 sheets of aluminum, 21"x44"x.025".
PD 8-8. Previous report 8-6

● STEEL FENCE— Seattle, Wash.

Bids will be opened 2 p.m., August 20, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for furnishing and installing 744' of 7' high galvanized woven wire fence at Richmond Highlands Tank No. 2; Ord. No. 85781. Plans include three strands of 4-point barbed wire above fencing; steel posts placed at 10' intervals, in 10" diameter concrete foundations; brackets, rails and braces. Plans by city engineers, 404 County City Bldg., Seattle. $10 deposit.

Plans available on and after August 11 with city engineers.
PD 8-9

● BRIDGE DECK, APPROACHES, TOWERS, PIERS— Seattle, Wash.

Bids will be opened 9:30 a.m., September 8, by King County Commissioners, 402 County City Bldg., Seattle, for reconstruction of deck and approaches of Whitney Bridge No. 3025 located approximately eight mi. easterly of Auburn on the Green River Road in Section 28, T. 21 N.R. 6 E.W.M.; and for reconstruction of towers and piers of Baring Bridge No. 509 A, a suspension bridge located approximately ½ mi. east of Baring (Stevens Pass Highway) in Section 2, T. 26 N.R. 10 E.W.M. Separate contracts for Whitney Bridge and Baring Bridge.

WHITNEY BRIDGE—Quantities: 39.3 MBM treated timber in place; 70 c.y. loose riprap in place; 100 c.y. common embankment in place; 96' precast concrete cribbing in place, headers; 168' precast concrete cribbing in place, stretchers; 5,800 sq. ft. corrugated metal decking, 12 gauge in place; 115 ton class B asphaltic concrete plant mix in place; 220' approach railing in place.

BARING BRIDGE—Quantities: 70 c.y. structure excavation; 75 c.y. class G concrete in place; 25.7 MBM treated timber in place. Work includes removal of existing structure, setting cable saddles and cutting and treating existing piles, all as specified.
PD 8-9

● LUMINAIRES— Seattle, Wash.

Bids to be opened 10 a.m., August 20, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1,000 luminaires for EH1 mecury-vapor lamps. Plans with above office.
DC 8-13

★WATER SUPPLY LINE— Seattle, Wash.

Award to Coastal Construction Co., 15521 14th N.E., Seattle, $11,719 (contingent on approval from school district), by King County Water District No. 14, 8419 S. 19th St., Bryn Mawr Station, Seattle, for furnishing and installing approximately 2,110' of 8" and 120' of 6" class 150 asbestos-cement water pipe to serve A. W. Dimmitt Junior High School, at 80th Ave. S. and S. 122nd, Renton.
LB 8-13. Previous report 7-[illegible]

★RECONDITIONING BRIDGE SURFACES— Seattle, Wash.

Award to We Painters, Inc., 9711 19th S.W., Edmonds, $3,920, by King County Commissioners, 402 County City Bldg., Seattle, for cleaning, scraping, sandblasting and painting four steel bridges located in Road District No. 2 (South King County).
LB 8-13. Previous report 8-[illegible]

■ CLEARING, GRADING— Seattle, Wash.

Planholders announced for clearing and grading approximately 12 acres, and moving and relocating a house and another building at Burien Highline Park site. Bids will be opened 9:30 a.m., August 18, by King County Commissioners, 402 County City Bldg., Seattle.

Planholders: Aall City Excavating Co., 8114 9th S.W., Seattle; Thomas Scalzo Co., 3211 Airport Way, Seattle; Excavators', Inc., 5756 29th N.E., Seattle; John Patricelli, 1820 32nd S., Seattle; Derr Construction Co., 6730 S. 133rd; J. M. Bruch Co., Route 3, Box 304, Port Angeles.
PD 8-13. Previous report 8-[illegible]

▲SEWAGE TREATMENT FACILITIES— Seattle Defense Area, Wash.

Bids received by Corps of Engineers, Seattle district, 1519 S. Alaskan Way, Seattle, for construction of approximately 700' of 8" sewer main, approximately six 6" service laterals from existing septic tanks to the sewer main, a sewage treatment plant for the sewage from 12 residences, approximately 100' of chain link fencing, and a gravel surfaced access driveway, Seattle Defense Area Family Housing, Cougar Mountain; ENG-45-108-59-2.

Ten bids received August 12. Figures are under study. The apparent low bids are: Wayne Construction Co., 3810 Stone Way, $26,550; West Coast Mechanical Constructors, Milton, $26,868; Willard Construction Co., 9709 Greenwood, $28,709. Engineer's estimate $29,149. All of Seattle unless noted.
LB 8-13. Previous report 7-[illegible]

★STEEL TRUSS BRIDGE—Spokane, Wash.

Award to Crane Service, Inc., E. 7100 Broadway, Spokane, $21,409, by Spokane County Commissioners, Courthouse, Spokane, for construction of a steel truss bridge over Pine Creek on the Morrow Road, about ¾ mi. southwest of North Pine. Bids opened August 1.
LB 8-13. Previous report 7-[illegible]

★FLOODLIGHTING— Sumner, Wash.

Award to Jardeen Electric Co., 1233 S. Sprague, Tacoma, $12,301, by C. E. Willard, superintendent, School District No. 320, 1623 Main St., Pierce County, Sumner, for floodlighting a 100' unit football field at Sumner. Bids opened July 30.
LB 8-13. Previous report 7-[illegible]

★PAVING, EARTH FILL— Tacoma, Wash.

Awards announced by City Council, City Hall, Tacoma, on four improvement projects involving paving and constructing earth fill. AWARDS—LID 4633: Woodworth and Co., Inc., 1200 E. D St., $56,884. LID 4626: Cascade Asphalt Paving Co., $84,631. LID 2280 and IMP 4647: Coast Contractors, 2330 Fawcett Ave., $39,521. Of Tacoma.
LB 8-8. Previous report 7-[illegible]

★STREET LIGHTING— Tacoma, Wash.

Award to Westinghouse Electric Supply Co., 1325 S. Tacoma Way, Tacoma, $74,986, by City Council, City Hall, Tacoma, for street lighting luminaires, mercury-vapor ballasts and aluminum mast arms. Bids opened July 21.
LB 8-9. Previous report 7-[illegible]

● ROAD MAINTAINER— Tacoma, Wash.

Bids will be opened 11 a.m., August 18, by City Clerk, room 305, City Hall, Tacoma, for one road maintainer. Specifications with above office.
LC 8-13

▲**CHANNEL EXCAVATION—** **Tacoma, Wash.**

Four bids received by Pierce County Commissioners, Courthouse, Tacoma, for the Clark Creek Flood Control Project involving clearing, grubbing and excavating 3.579 mi. of Clark Creek from mouth at Puyallup River upstream to Engineer's Station 189+00. Bids opened August 12. BIDS: Carl Silverdale, Tacoma, $23,432; Einar Johnson Construction Co., Inc., Route 4, Box 466, Puyallup, $43,200; Lige Dickson, 3315 S. Pine, Tacoma, $47,530; Nisqually Sand & Gravel, McKenna, $58,350.

LB 8-13. Previous report 8-8

LAUNCHING RAMP— **Washougal, Wash.**

Byron Bullock, Councilman, has been named by the city of Washougal to investigate costs, including dredging, for construction of a small boat launching ramp. The city will then include the cost in the 1959 Port of Washougal budget. MH 8-13

●**SITE CLEARING, GRADING—** **Washougal, Wash.**

Bids will be opened 8 p.m., August 25, by School District No. 15, Skamania County, Washougal, at the Cape Horn School in Cape Horn for clearing about 15 acres and grading about 9 acres on a site about 12 mi. north of Washougal at the Steel bridge over the Washougal River near Skye. Plans with Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd, Portland. $10 deposit. Certified or cashier's check, or bid bond 5%.

An elementary school will be built on the site. Preliminary plans for the building are being prepared now by above architects, and bids will be called early in December. DC 8-13

■**RAILROAD, ROADS—** **Wenatchee, Wash.**

Planholders announced for the second phase of highway and railway construction involving approximately 11 mi., of grading and surfacing for Rocky Reach hydroelectric power project. Bids will be opened 10 a.m., P.S.T., August 22, by Public Utility District No. 1, Chelan County, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee. Plans with Stone & Webster Engineering Corp., Box 158, Wenatchee.

Planholders: Goodfellow Bros., Inc., Box 598, Wenatchee; J. A. Jones Construction Co., 432 Medical Arts Bldg., Seattle; James Crick & Sons, Box 102, Yardley; Fred H. Slate Co., 7805 S.W. 40th Ave., Portland, Ore.; Osberg Construction Co., 1132 N. 128th St., Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; Cherf Bros., Inc., & Sandkay Contractors, Inc., Box 938, Ephrata; J. W. Hardison Co., Box 48, Yakima; Grant Construction Co., Box 351, Coeur d'Alene, Idaho; Gibbons & Reed Co., Box 4989, Portland, Ore.; Wells & Wade, Box 1161, Wenatchee; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; Scheumann & Johnson, 1014 Lloyd Bldg., Seattle; Murphy Bros., E. 3728 Broadway Ave., Spokane; Curtis Construction Co., Box 106, Spokane; C. E. O'Neal, Inc., Box 270, Ellensburg; Max J. Kuney Co., N. 112 Ralph, Spokane; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco, Calif.; Donald M. Drake Co., 1600 N.W. Savier St., Portland, Ore.; P. J. Anderson & Sons, 13501 Aurora Ave., Seattle; White Bros. Construction Co., Box 376, Walla Walla; E. H. Snider, 420 Parkhill St., Cashmere; Sharp & Fellows Contracting Co., 108 W. 6th St., Los Angeles, Calif; Mannix International, Inc., 737 8th Ave. W., Calgary, Alberta, Canada.

Beall Pipe and Tank Corp., 12005 N. Burgard, Portland, Ore.; Columbia Tractor Co., Box 400, Wenatchee; Pacific Powder Co., 220 W. Harrison, Seattle.

LB 8-8. Previous report 7-25

★**SIGNAL SYSTEM—** **Wenatchee, Wash.**

Award to Chapman Electric, 103 Williams, Renton, $8,859, by Washington State Highway Commission, I. B. Munson, district engineer, Box 98, Wenatchee, for installing a traffic actuated signal system at Wenatchee Ave. and Miller St. in Wenatchee; PSH No. 2, Chelan County; a State Project. DC 8-9. Previous report 8-2

●**PUMPING ENGINE—** **Wenatchee, Wash.**

Bids to be opened 7:30 p.m., August 25, by City Council, City Hall, Wenatchee, for furnishing 1250 GPM two stage, centrifugal combination pumping engine. Specifications with city purchasing agent, Public Works Bldg., Wenatchee, and at City Fire Department. DC 8-9

APPROACH LIGHTING SYSTEM— **Yakima, Wash.**

Time limit extended by Civil Aeronautics Administration, to December 31 for a $96,132 federal grant for airport improvement, which includes acquistion of land. Federal allocation is for: extension of ramp and runway, $25,870; installation of standby power, $45,174; acquiring a 2,700′ tract of land and 1,000′ wide at East end of Main runday for $62,000. A narrow strip is also needed down the center for the approach lighting system.

IG 8-13. Previous report 7-12

STATE HIGHWAY BID OPENING POSTPONED

Due to the existing unsettled conditions in the heavy construction industry of Oregon, the State Highway Commission has deferred the opening of bids on projects advertised for bid opening on August 19.

The Highway Commission will announce the new dates for bid openings when conditions are more satisfactory for the receiving of bids which can be based on known labor cost factors.

The Bureau of Public Roads has taken similar action in the southwest area of Washington as well as on a forest highway project near Reedsport on Highway 38 in Oregon. Likewise, the United States Reclamation Service has deferred the opening of bids on the Ochoco Dam project in Crook County, Oregon.

IDAHO

SEWAGE COLLECTION, TREATMENT FACILITIES— **Boise, Idaho**

A bond issue of $4,350,000 to provide sewage collection and treatment facilities will be voted upon August 26 by property owners in the 4100 Bench Sewer District adjacent to Boise. If approved, funds will be used to install main and sewer laterals, sewer interceptor lines extending from the bench area to the Boise sewage treatment plant, and supplementary facilities at the treatment plant. DC 8-12

■**BRIDGE—** **Clearwater County, Idaho**

Planholders announced on construction of steel and concrete bridge known as Bungalow Bridge over North Fork of Clearwater River and on Pier-Kelly Creek Road No. 418, about 28 mi. northeast of Pierce, Idaho, Clearwater National Forest, Clearwater County; Inv. No. 40-59. Bids to be opened 2 p.m., M.S.T., August 20, by U.S. Forest Service, 1036 Federal Bldg., Missoula, Mont.

Planholders: Hansen & Parr Construction Co., W. 315 Boone Ave., Spokane, Wash.; H. Flechsing & Co., McKinley Park, Alaska; MacGregor Triangle Co., Box 4128, Boise, Idaho; Ruud Construction Co., 602 Realty Bldg., Spokane. DM 8-13. Previous report 8-6

■**SEWAGE TREATMENT PLANT—** **Idaho Falls, Idaho**

Planholders announced on construction of a sewage treatment plant on which bids will be opened 8 p.m., M.S.T., August 26, by City Council, City Hall, Idaho Falls. This is phase 3 of a city wide sewer program. Plans obtainable from Cornell, Howland, Hayes & Merryfield, consulting engineers, 628 Idaho Bldg., Boise, and from Roy C. Barnes, city clerk, Idaho Falls.

Planholders: Davis Construction Co., Box 326, Provo, Utah; Intermountain Co., Box 1869, Boise; Waterworks Equipment Co., 502 W. 3rd, Salt Lake City, Utah; Lee Hoffman, Inc., Box 37, Beaverton, Ore.; Pacific Water Works Supply, 2900 1st S., Seattle, Wash.; Watkins Construction Co., Box 1786, Boise; West Coast Contractors, Inc., Box 25, Milton, Wash.; R. H. Brown & Co., 5825 N.W. Front, Portland, Ore.; H. D. Fowler Co., Inc., 9th Ave. S. and Lane, Seattle; William S. Turner & Co., Pacific Bldg., Portland; Pacific Industrial Engineering, Inc., 607 Security Bldg., Pasadena, Calif.; Dorr-Oliver Co., 2705 Smith Tower, Seattle; Teller Construction Co., Box 435, Idaho Falls; Bingham Plumbing and Heating, 429 W. 18th, Idaho Falls; Detweiler Bros., Inc., Box 870, Twin Falls; A. J. Zinda, 2349 N.W. 22nd, Portland.

DM 8-13. Previous report 7-29

INTERCEPTOR SEWERS (Phase 2)— **Idaho Falls, Idaho**

Tentative bid date of August 18 has been extended to later in August by City Council, City Hall, Idaho Falls, for phase 2 of the interceptor sewer program. Bids on phase 1 were opened on July 7 with contract awarded to Kloepfer Construction Co., Box 352, Logan, Utah, $372,139. (See PCD 7-22.) Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, Idaho Bldg., Boise.

Quantities—Phase 2: 7,000′ of 48″, 4,200′ of 30″, 2,400′ of 24″, 1,400′ of 18″ sewer; 7,400′ of 8″, 10″, 12″ and 15″ concrete pipe; manholes. GH 8-8. Previous report 6-21

AIRPORT RUNWAY— **Idaho Falls, Idaho**

Plans and specifications are being prepared by Claud Black, city engineer, City Hall, Idaho Falls, for extending the Northeast-Southwest runway by installing a 694′ box-type concrete culvert over a branch of the Great Western Canal. The state has set aside $200,000 to reimburse the city for relocation of runways made necessary by the proposed new interstate highway.

The CAA has already allocated participating funds of $120,539 for new aprons and taxiways plus $46,181 for runways and $103,000 for a landing system. DC 8-9

FLOOD CONTROL— **Kendrick, Idaho**
(Estimated cost $110,000)

Work may be started by fall on a flood control project requested by the Village of Kendrick. Work will involve clearing the channel of the Potlatch River and reinforcing the river bank for about a mile and a half. Cost of project will be paid by federal government. Completion time three to four months.

Bids will be called by Corps of Engineers in Walla Walla. The village will bear the cost of obtaining the rights-of-way and easements and relocating the railroad lines, a total of about $1,700.

Work will be undertaken between Kendrick-Leland highway bridge and the Bear Creek bridge, about a mile and a half upriver. Dikes and reinforcements will be built on the Latah County side of the river. Channel clearing work will involve the elimination of several sandpits and blasting several bluffs on Nez Perce County side. DC 8-9

RELOCATED 21ST STREET GRADE— **Lewiston, Idaho**
(Estimated cost $323,000)

Bids will be called soon by Nez Perce County Commissioners, Courthouse, Lewiston, for relocation of the 21st St. grade between Lewiston and Lewiston Orchards. County, state and federal funds will be used.

The relocation work would route the street on the north bank of the canyon through which the road now passes. At a point near the top of the grade the route will cross the old roadway and follow a gulch to radio station KRLC, cut in front of the station and join Thain Road at Stewart Ave. DC 8-12

GAS LINE— **Lewiston, Idaho**

If Lewiston-Clarkston facilities of Cascade Natural Gas, Inc., 319 Main, Lewiston, are purchased by the Washington Water Power Co., E. 1411 Mission, Spokane, Wash., WWP will spend an estimated $80,000 before January 1, 1959, on a construction and installation program. Hearings have been held in Clarkston and Lewiston before regulatory bodies of both states in advocating approval of the proposed sale. MH 8-9

SEWAGE SYSTEM, TREATMENT PLANT— **Pocatello, Idaho**

Bids will be called soon by City Commission, City Hall, Pocatello, for constructing sewage treatment plant and additional sewage lines within the city. Plans by Hamilton & Voeller, consulting engineers, 110 N. 2nd, Pocatello.

LB 8-12. Previous report 7-3

CLEARING— **Rupert, Idaho**

Bids rejected by Bureau of Reclamation, Rupert, for clearing 73 acres at Little Wood River upstream from the Little Wood Dam, approximately 9 to 12 mi. northwest of Carey, Blaine County; Spec. No. 100C-332. Twelve bids received July 22. Bids will be readvertised soon under a new invitation number, 100C-341.

LB 8-9. Previous report 7-25

DAM— **Snake River, Idaho**

Plans announced for a proposed 938' high dam at the Nez Perce site on the Snake river, near the confluence of the Salmon and Imnaha river, by Idaho-Oregon-Washington Hells Canyon Association, Lynn Tuttle, 908 10th, Clarkston, Wash. An alternate for a 823' dam was also suggested by the Association. MH 8-9

★FURNISH PUMP— **Terreton, Idaho**

Award to Cope Drilling & Pump Co., Airport Road, Idaho Falls, $5,993, by Ted Cramer, State Purchasing Agent, room 225, State House, Boise, for furnishing a deep well turbine pump for Fish and Game Department, Boise. Bids opened July 25. ONLY OTHER BID: Peerless Pump Co., 301 West Ave. 26, Los Angeles, Calif., no amount noted. LB 8-12. Previous report 7-23

MONTANA

●CURBS, GUTTERS, PAVING— **Billings, Mont.**

Bids to be opened 10 a.m., August 26, by Yellowstone County Commissioners, Courthouse, Billings, for curb and gutter installation and street paving on Wingate Lane from Poly Drive to Colton Blvd., in RSID 409. Plans with Sage Engineers and Land Planners, Inc., 706 Central Ave., Billings. Certified check 10%. EE 8-13

★DAM— **Ennis, Mont.**

Award to J. J. Reese Construction Co., Noxon, $120,000 (approximate), by Norwegian Creek Reservoir Co. of Ennis, for construction of a 100' high and 700' long dam near Ennis. Award was also made to Gilbert Jonas, Golf St., Thompson Falls, for concrete work. Completion time December 31. LC 8-9

●AUTO-TRANSFORMERS— **Glendive, Mont.**

Bids to be opened 2 p.m., M.S.T., September 25, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob cars at Glendive, three, 20,000-kva, single-phase, outdoor, auto-transformers, each to be equipped with tank-mounted arresters; for use at the Dawson County substation, Fort Peck Proj., Mont.; Inv. No. DS-5092. DM 8-9

WATER PLANT— **Glendive, Mont.**

Petitions are being circulated to place on the ballot November 4 a $600,000 bond issue to finance construction of a new city water plant. EE 8-13

SEWAGE TREATMENT PLANT— **Glendive, Mont.**

A bond issue will be voted upon November 4, by City Council, City Hall, Glendive, on $420,000 to finance the city's share of cost of proposed $600,000 project for sewage treatment plant and sewer system. Federal funds would pay remainder of cost. EE 8-13

▲SEWER PROJECTS— **Glendive, Mont.**

Apparent low bid was submitted by Holm Sutherland Co., 19 Foster Lane, Billings, $75,056 (SID No. 10), $13,739 (SID No. 11), by Dawson County Commissioners, Courthouse, Glendive, for two sewer projects—rural SID No. 10 on west Glendive and SID No. 11, known as Forest Park District. Bids will have to be approved by U.S. Department of Health and Sanitation before acceptance. EE 8-13

SEWERS— **Great Falls, Mont.**

An executive veto was made at a city council meeting in Great Falls, on a resolution calling for a special $1,620,000 sewer revenue bond election for September 30. Some favor was given to a general obligation bond issue to be held in conjunction with the city election next spring. The State Board of Health has ordered the city to move toward construction of a sewage treatment plant or it will not be given approval for sewage line extension. DC 7-31

BRIDGE— **Great Falls, Mont.**

(Estimated cost $1,700,000)

Voters at the general election in November will consider a proposal for Cascade County to expend $400,000 over a six-year period for participation in building the proposed Fifteenth Street Bridge. Under the plan, the state would put up an additional $400,000 and the Federal government would provide 53 per cent of the cost of the structure. DC 8-2

●STATE HIGHWAY PROJECTS— **Helena, Mont.**

Bids will be opened 9 a.m., August 27, by Montana State Highway Commission, State Highway Bldg., Helena, on 17 highway construction projects. Plans with above office. Certified check or cashier's check 5%. (Bid bond is no longer acceptable.)

SIGNS, Monida-North Road — Furnish, place signs and delineators on 17.1 mi. in Beaverhead County; I 15-1(7).

Quantities: 1,399 cu. ft. sheet aluminum; 1,729.3 sq. ft. extruded aluminum; 217 sq. ft. plywood; 11,902 lb. steel I-sign posts; 19,152 lb. steel U-sign posts; 7,174 MBM treated timber sign posts; 84' treated timber sign posts; 1,340 delineators and one changeable copy sign. Completion time 45 calendar days.

SIGNS, DELINEATORS, Cascade - Ulm Road—Furnish, place signs and delineators on 12.5 mi. in Cascade County; I 15-5(8)250.

Quantities: 1,047 sq. ft. sheet aluminum; 628 sq. ft. extruded aluminum; 114 sq. ft. plywood; 2,650 lb. steel I-sign posts; 11,732 lb. steel U-sign post; 4.854 MBM treated timber sign posts; 252' treated timber sign poles; 794 delineators. Completion, 45 calendar days.

PLANTMIX PAVING, Sun River - Great Falls Road—Grading, aggregate surfacing, plantmix bituminous surfacing, seal coat oiling, draining 8.337 mi. in Cascade County; I 15-5(9)275, Unit 1.

Quantities: 2,860,399 c.y. excavation; 912,745 mi. yd. overhaul; 9,077 units rolling; 58,009 M gal. watering; 334,562 ton crushed aggregate; 427,452 ton uncrushed aggregate; 4,218 ton penetration asphalt; 568.84 ton cutback asphalt; 474.80 ton emulsified asphalt; 76,625 ton plantmix; 604 c.y. gravel backfill; 431' structural plate pipe; 5,548' reinforced concrete pipe; 5,779 rods wire fence; 33,850' guard rail; 293.4 sq. yd. concrete pavement; 988' concrete median curb. Completion 380 calendar days.

CONCRETE STRUCTURES, Sun River-Great Falls Road—One 108' dual and one 218.9' single concrete structure, three 17.25' concrete junior grade separations in Cascade County; I 15-5(9)275 Unit 2.

Quantities: 1,260' precast prestressed concrete beam; 1,935 c.y. structure excavation; 1,929.8 c.y. concrete; 219,064 lb. reinforcing steel; lump sum for structural steel and treated timber test piles; 11,350' furnish treated timber piles; 10,958' drive treated timber piles; 550.42' steel beam bridge rail; 440' steel bridge rail. Completion September 30.

BRIDGE, Superior-East and West Road—One 620.92' and one 800.92' steel and concrete bridge in Mineral County; I 90-1(5)46.

Quantities: 1,195 c.y. excavation; 56 floor drains; 4,755 c.y. structure excavation; lump sum for shoring and cribs; 3,309.9 c.y. concrete; 365,473 lb. reinforcing steel; lump sum for structural steel, untreated timber test piles and treated timber test pile; 9,811.5' drive untreated timber piles; 3,442' drive treated timber piles; 3,540' furnishing treated timber piles; 2,847' steel bridge rail. Completion July 31,1960.

SIGNS, DELINEATORS, Springdale-W Road—Furnish, place signs and delineators on 11.8 mi. in Park County; I 90-7(5)339.

Quantities: 628 sq. ft. aluminum; 260 sq. extruded aluminum; 58 sq. ft. plywood; 18,938 lb. steel U-sign posts; 2,888 MB treated timber sign posts; 168' treated timber sign poles; 884 delineators. Complete 45 calendar days.

BRIDGE, Yellowstone River — One steel and concrete bridge over Yellowsto River about 6.5 mi. east of Reedpoint, Stillwater County; I 90-8(7)354.

Quantities: lump sum for shoring, cri and test piles; 1,485 c.y. structure excavation; 1,344.4 c.y. concrete; 97,099 lb. reinforcing steel; lump sum for structural ste 24,990 lb. furnish steel bearing piles; 9 drive steel bearing piles; 1,156.22' ste bridge rail. Completion November 30, 19

Surfacing, Gardiner - Livingston Road. Grading, aggregate surfacing, draining mi. in Park County; F 217(10).

Quantities: 623,571 c.y. excavation; 1,2 units rolling; 12,277 M gal. watering; 119,4 ton crushed aggregate; 26,503 ton uncrushe aggregate; 21' relay pipe culverts; 344 c gravel backfill; 285' corrugated metal pip 460' structural plate pipe; 2,240' reinforce concrete pipe; 114.6 ton bentonite canal li er. Completion 220 calendar days.

PLANTMIX PAVING, Dillon-Twin Bridg Road—Grading, aggregate surfacing, plan mix bituminous surfacing, seal coat oilin 10.449 mi. in Beaverhead and Madison cou ties; DF 387(6).

Quantities: 3,018 c.y. excavation; 70 un rolling; 101 M gal. watering; 6,831 t crushed aggregate; 1,408.37 ton penetratio asphalt; 5.51 ton cutback asphalt; 165.82 t emulsified asphalt; 25,625 ton plantmi Completion 100 calendar days.

SURFACING, Brandenberg-Garland-Mil City Road — Grading, aggregate surfacin draining 5.668 mi. in Custer County; S 45(1

Quantities: 329,858 c.y. excavation; 32,7 mi. yd. overhaul; 165 units rolling; 5,749 gal. watering; 41,320 ton crushed aggregat 175 c.y. riprap; 105' relay pipe culverts; 3 c.y. gravel backfill; 1,344' corrugated met pipe; 192' structural plate pipe. Completio 150 calendar days.

SURFACING, White Sulphur Springs-We Road — Aggregate surfacing 3.268 mi. Meagher County; DS 49(6).

Quantities: 519 c.y. binder; 1,038 mi. y overhaul on binder; 102 units rolling; 509 gal. watering; 25,474 ton crushed aggregat Completion 80 calendar days.

SURFACING, Knobs-Webster-Baker Ro —Grading, aggregate surfacing, drainin 4.597 mi. in Fallon County; S 51(4).

Quantities: 151,475 c.y. excavation; 5,5 mi. yd. overhaul; 104 units rolling; 2,7 M gal. watering; 26,029 ton crushed aggr gate; 483 c.y. binder; 87 c.y. gravel back fill; 1,005' corrugated metal pipe; 116' stru tural plate pipe. Completion 120 calend days.

SURFACING, BRIDGE, Shawmut-Hedge ville Road — Grading, aggregate surfacin draining, constructing one 57' treated tim ber bridge on 8.709 mi. in Wheatland Cou ty; DS 64(2) and S64(3).

Quantities: 357,114 c.y. excavation; 69,8 mi. yd. overhaul; 171 units rolling; 6,195 gal. watering; 42,752 ton crushed aggregat 252' relay pipe culverts; 180 c.y. grave backfill; 2,788' corrugated metal pipe; 190 structural plate pipe; 0.879 MBM untreate timber; 20.616 MBM treated timber; 63 treated timber piles. Completion 160 cal endar days.

BITUMINOUS SURFACING, Wolf Creek-August Road—Grading, aggregate surfacing bituminous surface treatment, draining 17.789 mi. in Lewis and Clark County; S 228(1).

Quantities: 677,825 c.y. excavation; 5,96 mi. yd. overhaul; 2,573 units rolling; 14,10 M gal. watering; 230,023 ton crushed aggregate; 18.265 ton uncrushed aggregate; 408.68 ton cutback asphalt; 406.68 ton emulsified asphalt; 225 c.y. riprap; 485 c.y. gravel backfill; 394' corrugated metal pipe; 374' structural plate pipe; 5,930' reinforced concrete pipe. Completion 200 calendar days.

ROADMIX SURFACING, Big Spring-North Road—Grading, aggregate surfacing,

roadmix bituminous surfacing, seal coat oiling, draining 2.15 mi. in Fergus County; DS 261(2).

Quantities: 104,117 c.y. excavation; 6,265 mi. yd. overhaul; 380 units rolling; 2,208 M gal. watering; 38,055 ton crushed aggregate; 255.35 ton cutback asphalt; 39.88 ton emulsified asphalt; 2.144 mi. processing; 1,193 sq. yd. processing; 24.5 c.y. riprap; 310 c.y. gravel backfill; 798' corrugated metal pipe; 250' structural plate pipe. Completion time 90 calendar days.

SURFACING, Red Lodge—Columbus Road—Grading, aggregate surfacing, draining 7.676 mi. in Carbon and Stillwater counties; DS 289(7) and DS 346(4).

Quantities: 231,193 c.y. excavation; 24,830 mi. yd. overhaul; 599 units rolling; 4,142 M gal. watering; 36,523 ton crushed aggregate; 310.14 c.y. riprap; 100' relay pipe culverts; 300 c.y. gravel backfill; 1,256' corrugated metal pipe; 424' structural plate pipe; 4,169' reinforced concrete pipe. Completion 150 calendar days.

SURFACING, Flathead, Lake and Lincoln Counties—Crushed and stockpile ⅝" aggregate surfacing from ten crusher set-ups involving about 105,000 ton crushed aggregate and 28,650 ton mi. haul; SMP 1599. Completion June 30, 1959. DM 8-12

★**ASPHALT—** **Laurel, Mont.**

Award to Long Construction Co., Lockwood Flats, Billings, $18,520, by City Council, City Hall, Laurel, for furnishing 4,000 tons hot mix asphalt surface course in Laurel. Bids opened July 24.

LB 8-9. Previous report 7-16

●**WATER MAINS—** **Missoula, Mont.**

Bids will be opened 10 a.m., M.S.T., August 29, by State Board of Examiners, Capitol Bldg., Helena, for installation of water mains on the campus of Montana State University, Missoula. Plans with T. G. Swearingen, director of Planning and Construction, room 201, Field House, campus, and from engineering department, Board of Examiners, room 213, above address. Cashier's check, certified, bank money order or bank draft 5%. RB 8-13

★**GRADING, SURFACING—** **Sanders County, Mont.**

Award to James Crick & Sons, E. 3801 Riverside, Spokane, Wash., $544,559, by Bureau of Public Roads, 824 Pittock Block, Portland, Ore., for grading and surfacing 6.517 mi. of Clark Fork Highway in Kanisksu National Forest, Sanders County, Mont.; Proj. No. 6-B1, C1, I4. Bids opened July 29. LC 8-8. Previous report 7-31

★**ROAD SCRAPER—** **Sidney, Mont.**

Award to Tractor & Equipment Co., Sidney, $13,160, by Richland County Commissioners, Courthouse, Sidney, for purchase of a cable operated road scraper. No other bids received. EE 8-13

■**WATER AND SEWER SYSTEM—IMPROVEMENTS—** **West Glacier, Mont.**

Planholders announced on construction of water and sewer system improvements at Lake McDonald Hotel site on the west side of Glacier National Park. Bids will be opened August 19 by E. A. Hummel, superintendent, Glacier National Park, Park Headquarters, West Glacier.

Planholders: Glen Geery, Contractor, River Road, Missoula; Cop Construction Co., Inc., 615 Central Ave., Billings; Robertson & Cave, Inc., Box 1488, Great Falls; Richem & Poore, Choteau; Baker Plumbing and Heating Co., Box 54, Casper, Wyo.; N. D. Robinson, Box 466, Missoula; H. E. Schimmels, Box 222, Dishman, Wash.; Kirkpatrick Bros., Box 343, Kalispell; Robinson & Shepherd, Contractors, 208 28th N., Great Falls; H. D. Fowler Co., Inc., Box 3084, Seattle, Wash.; Pack Bros., Route 3, Kalispell; Harold J. Boyd, Browning; Gordon McDonald, Box 1872, Great Falls; Liberty Construction Co., Route 3, Missoula; W. M. Walterskirchen, Box 1163, Missoula; Skranak Bros., Box 1025, Libby; Falls Construction Co., 25th N. and River Drive, Great Falls; C. W. Schmid, Box 1528, Missoula; Mike O'Connor, Box 177, Columbia Falls.

Improvements to the Lake McDonald Hotel water system will include 4,300 feet of 8-inch asbestos-cement pipe, 2,000 feet of 6-inch pipe, 1,800 feet of 2-inch galvanized pipe, six gate valves, seven hydrants and a chlorinator house. The sewer project there will involve 1,270 feet of 8-inch tile, 4,000 feet of 6-inch tile, 780 feet of 8-inch cast iron pipe, 200 feet of 6-inch cast iron pipe, and 1,650 feet of 4-inch cast iron pipe. DM 8-9. Previous report 7-31

ALASKA

★**AIRPORT LANDING STRIP—** **Allakaket, Alaska**

Award to Ramstad Construction Co., Box 1454, Anchorage, $77,777, by Alaska Aeronautics and Communications Commission, room 202, Glover Bldg., Anchorage, for construction of an airport landing strip to be located near Allakaket; Project No. 9-50-069-01. AL 8-8. Previous report 7-29

★**TELEPHONE UNDERGROUND PLANT—** **Anchorage, Alaska**

Award to Doughty Construction Co., Box 1167, Spenard, $132,109, by City Council, City Hall, Anchorage, for installation of manholes and associated ducting at the Federal and Fairfax telephone exchanges, installation of manholes and associated ducting system on 13th Ave., Cordova St., in 5-6 Alley, 3-4 Alley; installation of an underground conduit crossing, including a 101-22 tape armored cable on Anchorage-Seward Highway near Northern Lights Blvd., and other miscellaneous work.

AL 8-8. Previous report 8-5

★**CONDUIT, FITTINGS—Anchorage, Alaska**

Award to North Coast Electric Co., 171 Jackson, Seattle, $15,873, by City Council, City Hall, Anchorage, for furnishing Hurduct pipe and fittings, in Anchorage.

AL 8-8. Previous report 8-7

★**CHAIN LINK FENCES—** **Anchorage, Alaska**

Award to Acme Fence Co., Box 1437, Spenard, $6,926, by City Council, City Hall, Anchorage, for erection of chain link fences and grading work at six substation sites, No. E375. AL 8-8. Previous report 8-5

★**TELEPHONE UNDERGROUND PLANT (Manholes)—** **Anchorage, Alaska**

Award to Olympic Foundry Co., 5200 Airport Way, Seattle, Wash., $3,997, by City Council, City Hall, Anchorage, for furnishing manholes and ducting system on 13th Ave., Cordova St., in 5-6 Alley, Anchorage. Award was made to Doughty Construction Co., Box 1167, Spenard, $132,109, for construction of the Telephone Underground Plant. See PCD 8-8.

AL 8-9. Previous report 8-8

★**STEEL BARS—** **Anchorage, Alaska**

Award to Steel Fabricators, Inc., Box 1039, Anchorage, $3,435, by City Council, City Hall, Anchorage, for furnishing reinforcing steel bars. AL 8-9

●■**POWER GENERATOR BUILDING—** **Cold Bay, Alaska**

Bids will be opened 2 p.m., A.S.T., August 19, by Civil Aeronautics Administration, Contract and Purchase Section, AN-170-C, Box 440, Anchorage, for construction of a 96'x56' steel frame metal clad power generator building on concrete foundation complete with all utilities, at Cold Bay; Inv. No. 5-59-9. Plans with above office. 10% bid bond.

Work includes installation of 265' of 1½" galvanized steel water pipe with shut-off; installation of 330' of 4" transite or equal sewage line; installation of 100' of 1½" conduit underground, pull in ⅜ A.W.G. single conductor super cornal conductors; provide cable terminators; installation of fuel cutouts and lightning arrestors; installation of a station perimeter ground of 2/0 seven strand bare copper cable with ¾'x10' copper weld ground rods.

Planholders: Allen Electric Co., Box 1523, Anchorage; Manson-Osberg, Box 3506, Eastchester Branch, Anchorage; York Steel, Box 1705, Anchorage; Alaska Metal Builders, Inc., Box 2194, Anchorage; Modern Electric, Box 4515, Spenard; Line Material Co., 4502 Lois Drive, Spenard; Sweta Construction Co., Box 297, Mountain View. AL 8-8

●**WATER SUPPLY FACILITIES—** **Juneau, Alaska**

Bids will be opened for the second time, 2 p.m., P.S.T., August 28, by Corps of Engineers, Alaska District,Box 1288, Anchorage, for construction of water supply facilities for the ACS Operations Station located at Juneau (Lena point); ENG-95-507-59-15. Plans with above office. Work consists of construction of 10,000 gal. water storage tank, water treatment and pump building complete with fire and supply pumps and water treatment equipment, underground distribution system, installation of well pump in existing well, installation of fire protection water piping and fire hose racks in existing buildings and necessary electrical service. Bids were previously opened on May 27 and only bid that of Triplette & Trucano, Box 2562, Juneau, $53,543, was subsequently rejected.

A pre bid conference will be held in the Resident Engineer Building, Juneau, at 2 p.m., P.S.T., August 14.

LB 8-8. Previous report 5-29

●**WATER WELL—** **Juneau, Alaska**

Bids to be opened 11 a.m., P.S.T., August 26, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for drilling and casing a water well about 165' west and 53' south of a point on the Glenn Highway opposite ACS Pole 6743, at site of the proposed Eureka Maintenance Depot; Proj. F-042-3(1). Plans free of charge at 311 Federal Bldg., Juneau. Bid guarantee 5%. DM 8-9

★**GRADING—** **Juneau, Alaska**

Award to J. S. Ramstad Construction Co., 945 E. 1st, Anchorage, $45,762, by Bureau of Public Roads, 311 Federal Bldg., Juneau, for grading 3.014 mi. Alaska Forest Development Road Project, Chugach 153-B, Snug Harbor Road, Kenai Peninsula, Alaska.

JU 8-13. Previous report 7-30

▲**EXCAVATION—** **Juneau, Alaska**

Bids were opened August 12 by Bureau of Public Roads, 319 Federal Bldg., Juneau, for 132,986 c.y. borrow excavation, nine mi. east of Cordova, ending near entrance to CAA Station, Cordova Airport, an Alaska Forest Highway Project, No. 32-A5. LOW BIDS: Pacific Alaska Contractors, Inc., 1515 Center, Tacoma, $707,754; Green Construction Co., Securities Bldg., Seattle, $756,577; William Smith Construction Co., Box 1648, Anchorage, $768,495.

JU 8-13. Previous report 7-22

●■**GENERATOR BUILDING—** **King Salmon, Alaska**

Bids will be opened 2 p.m., A.S.T., August 18, by Civil Aeronautics Administration, contract and purchase section, AN-170-C, Box 440, Anchorage, for construction of a 96'x52', steel frame power generator building, complete with utilities at King Salmon; Inv. No. 5-59-7. Plans with above office. 10% bid bond.

Description: power house will be on a concrete foundation; install 430' of 1½" galvanized steel water pipe from existing water well to power house; install 80' of 4" soil or wood stave sewage line; provide and install one metal septic tank; install 20' soil or wood stave effluent line from septic tank to leaching well; construct and install a wooden leaching well.

Planholders: American Services, Inc., Box 915, Anchorage; Allen Electric, Box 1523, Anchorage; City Electric, Box 3698, Eastchester Branch, Anchorage; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle, Wash.; Line Material Co., 4502 Lois Drive, Spenard; York Steel Co., Box 1705, Anchorage; Morrison-Knudsen, Box 320, Anchorage; Arthur Corvi, Box 4877, Spenard; Fairbanks Building Contractors, 1441 Laurene, Fairbanks; Central Construction Co., 427 Medical Arts Bldg., Seattle, Wash.; Quisberg & Jordan, Box 29, King Salmon; Alaska Metal Builders, Inc., Box 2194, Anchorage; Arctic American Plumbing & Heating, 930 Ingra, Anchorage; Kennedy Electric Co., 527 C St., Anchorage. AL 8-8

▲**SEAPLANE RAMP—** **Sitka, Alaska**

Three bids received by Director of Aeronautics, Glover Bldg., Anchorage, for construction of and improvement to the Seaplane Ramp and Turnaround facility at Sitka; Proj. No. 9-50-024-03. Bids opened August 5. BIDS: C & R Builders, 1619 8th N., Seattle, Wash., $46,664; Clyde C. Franks, Sitka, $49,962; Hildre Sand and Gravel and R. J. Sumners, 1001 Capitol Ave., Juneau, $63,526 (joint venture).

AL 8-8. Previous report 7-31

NORTHERN CALIFORNIA

★**SANITARY SEWERS—** **Belmont, Calif.**

Award to E. T. Haas Co., 407 Harbor Blvd., Belmont, $95,925, by City Council, City Hall, Belmont, for improvement of Plateau Drive et al, Sanitary Sewer District; Res. 1345.

RM 8-16. Previous report 5-16

★**BRIDGE—** **Chico, Calif.**

Awards announced by City Council, City Hall, Chico, for constructing the Martin C. Polk bridge over Big Chico Creek between Mangrove Ave. and Pine St. in Chico. AWARDS: Butte Creek Rock Co., Box 512, Chico, $33,517 (approaches, traffic island, lighting, signals); Egan Construction Co., Stockton, $58,041 (four-lane bridge). RS 8-16

●**LEVEE—** **Colusa, Calif.**

Bids will be opened 2 p.m., D.S.T., September 4, by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for levee construction, right bank Sacramento River, between Colusa and Knights Landing, Colusa and Yolo counties, Calif.: CIVENG-04-167-59-2. Specs with above office. Bid bond 20%. Completion time: 405 days. Quantities: 163,100 c.y. unclassified excavation; 133,800 c.y. levee embankment; 25 sta. levee capping (embankment); 2,500' shaping existing levee crown; 42,630 ton quarry rock above, 41,510 ton quarry rock below mean low water; 5,210 ton crushed mineral aggregate surfacing; 3,300 ton rock toe-wall; 100 c.y. concrete; 150 bbl. portland cement; 5,500 lb. steel reinforcing; 788' corrugated metal pipe.

RM 8-16

●**PLANTMIX PAVING—** **Galt, Calif.**

Bids will be opened 8 p.m., August 26, by City Council, City Hall, Galt, for plantmix surfacing 1.4 mi. over existing surfacing, on Lincoln Way from 750' north of Kost Rd. to 180' south of Elm St. in Galt, Sacramento County. Specs with city clerk, City Hall. $10 deposit. Cash, certified or cashier's check, or bid bond 10%.

RC 8-16

★**OVERHEAD BRIDGE—** **Martinez, Calif.**

Award to O. C. Jones & Sons, 1520 4th St., Berkeley, $44,373, by Contra Costa Board of Supervisors, Martinez, for Pacific Avenue-S.P.R.R. Overhead; Proj. No. 1795-55-1. Bids opened June 17.

RM 8-16. Previous report 6-7

●**PRIMARY APPROACH LIGHTING—** **Mather AFB, Calif.**

Bids will be opened September 4 (tentative), by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for construction of primary approach lighting, Mather Air Force Base, Sacramento County, Calif.; ENG-04-167-59-9. Work includes approach lighting system from end of runway to point 3,000' beyond; transformer vault with parking area; connections from approach lighting system to night lighting vault and control tower. Specs with above address. Bid bond 20%. Completion time: 110 days.

RM 8-16

▲**REINFORCED CONCRETE BRIDGE—** **Merced, Calif.**

Bids received August 1 by City Council, City Hall, Merced, for constructing 122' reinforced concrete bridge, on R St. spanning Bear Creek in Merced. ONLY BIDS: Rowlett-Sloan Construction Co., 946 N. Fresno, Fresno, $75,051; Thomas Construction Co., 4665 E. Hedges Ave., Fresno, $76,819.

RM 8-16. Previous report 7-26

★**STREET IMPROVEMENT—Modesto, Calif.**

Award to Standard Materials, Box 661, Modesto, $25,720, by City Council, City Hall, Modesto, for improvement of Granger Ave., between Tidewater Southern Railroad tracks and Tully Road, Modesto. Bids opened August 4.

RM 8-16

★**GRADING, PAVING—** **Oakdale, Calif.**

Award to Standard Materials, Inc., 1022 Woodland Ave., Modesto, $17,866, by City Council, City Hall, Oakdale, for paving E St., between Johnson and Yosemite Sts. in Oakdale.

RM 8-16

●**EXCAVATION—** **Oakland, Calif.**

Bids will be opened 12:30 p.m., August 21, by City Council, City Hall, Oakland, for excavation work at Hall of Justice site, on block bounded by Broadway, Washington, Sixth and Seventh Sts. in Oakland. Specs with Supt. of Buildings, Room 509, City Hall. $10 deposit. Certified, cashier's checks or surety bond 10%. Completion time: 72 days.

RC 8-16

●**PIPE CONDUIT—** **Oakland, Calif.**

Bids will be opened 12:30 p.m., August 28, by City Council, City Hall, Oakland, for constructing pipe conduits in 21st, Telegraph Ave., Broadway and Webster St., Oakland. Specs with Engineering Dept., above address. $5 deposit. Certified, cashier's check or surety bond 10%. Completion time: 90 days.

RC 8-16

●**STEEL PIPE—** **Oakland, Calif.**

Bids will be opened 2 p.m., August 22, by East Bay Municipal Utility District, 2130 Adeline St., Oakland, for furnishing 40,200' of cement mortar lined and coated electric welded steel pipe in 6.9", 9.05", 13.2" and 20" diameters; Prop. 2554. Specs with Procurement and Materials Office, 2127 Adeline St., Oakland.

RC 8-16

●**DRAINAGE, PUMPHOUSES, PUMPS,** **Oakland, Calif.**

Bids will be opened 2:30 p.m., August 25, by Board of Port Commissioners, Port of Oakland, room 73, Grove St., Pier, Oakland, for the following construction work at Metropolitan Oakland International Airport. Separate bids on each item. Item 1: Constructing two drainage pumphouses, F.A.A.-P. 9-04-037-12. Item 2: Installing pumps and certain electrical work for field drainage system, F.A.A.P. 9-04-037-12. Item 3: Constructing base rock, drainage for paved areas, electrical ducts, F.A.A.P. 9-04-037-12. Specs with above address. $10 deposit for Items 1 and 2; $25 deposit for Item 3. Certified, cashier's check or bid bond 10%. Completion times—Item 1: 180 days. Item 2: 120 days. Item 3: One year.

RC 8-16

★**DRAINAGE CANAL—** **Oakland, Calif.**

Award to McGuire and Hester, 796 66th Ave., Oakland, $169,024, by Alameda County Board of Supervisors, Courthouse, Oakland, for improving the Ashland-Washington Drainage Canal. The channel extending between Washington Manor and San Francisco Bay, nearly 2 mi., will provide flood drainage for the San Leandro Industrial area.

RC 8-16

▲**EXCAVATION, PLANTMIX PAVING, DRAINAGE—** **Orinda, Calif.**

Bids received August 5 by Contra Costa County Board of Supervisors, Martinez, for repair of storm damage on Normandy Lane and La Espiral, Orinda, involving excavation, plantmixed paving, drainage ditch; Proj. 2555-58-1(FD), 2545-58-2(FD). ONLY BIDS: Gallagher & Burk, 344 High St., Oakland, $49,169; Antioch Paving Co., Rt. 1, Box 640, Antioch, $70,896.

RM 8-16. Previous report 7-26

●**SANITARY SEWERS—** **Redding, Calif.**

Bids will be opened 2 p.m., August 28, by City Council, City Hall, Box 271, Redding, for sanitary sewer improvements, Sunset Terrace Unit No. 8, Sewer Assessment Dist. 1958-1, Redding. Specs with Dept. of Public Works, 1326 Shasta St., Redding. $15 deposit. Quantities: 2,950' of 8", 1175' of 6", 550' of 4" sanitary sewer; 150' of 8", 300' of 6" welded steel sewer pipe.

RM 8-16

●**LEVEE REPAIRS—** **Sacramento, Ca**

Bids will be opened 2 p.m., D.S.T., A ust 21, by Corps of Engineers, 305 Wr Bldg., 1209 Eighth St., Sacramento, emergency repairs, right and left ban Cosumnes River, Sacramento County, Ca CIVENG-04-167-59-18. Specs with above o fice. Bid bond 20%. Completion time: days. Quantities: 1,200 c.y. unclassified e cavation; 23,000 c.y. embankment; 360 crushed mineral aggregate surfacing.

RM 8-

▲**PAVING, SEWERS, WATER DISTRIBUTION—** **Sacramento, Cal**

Bids received August 7 by City Counc City Hall, Sacramento, for grading, pavin curbs and gutters, sidewalks, sewers, wate distribution system, Meadow View Villag Unit No. 1, Sacramento; Res. 3270. LOW BIDS: A. Teichert and Son, Inc., 1931 Stock ton Blvd., Sacramento, $148,930; McGill vray Construction Co., 65th and Folsom Blvd., Sacramento, $149,935; Granite Con struction Co., Box 900, Watsonville, $161,36

PB 8-16. Previous report 6-2

●**PAVING, SIDEWALKS, CURBS, SEWERS, WATER DISTRIBUTION SYSTEM—** **Sacramento, Calif.**

Bids will be received until 5 p.m., and opened at 8 p.m., August 28, by City Council, City Hall, Sacramento, for improvement of Carello Gardens Unit No. 2 Subdivision Res. 3280. Specs with E. A. Fairbairn, city engineer, City Hall. Quantities: 17,900 c.y. excavation, grading; 176,448 sq. ft. asphaltic concrete pavement; 10,716' curb and gutter, cut No. 13 with dowels; 47,678 sq. ft. concrete sidewalk; 11,628' extra strength vitrified clay sewer pipe, 4" to 18"; 2,292' reinforced concrete sewer pipe, extra strength, 24" to 33".

PB 8-1

▲**PAVING, CURBS, SIDEWALKS, DRAINAGE, SEWERS, WATER DISTRIBUTION—** **Sacramento, Calif.**

Bids received August 13 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for Del Dayo Riviera Subdivision Improvement Unit No. 1, Sacramento County, involving earthwork, excavation, concrete curbs, gutters, sidewalks, asphaltic concrete pavement, drainage facilities, sewers, water distribution system. Engineer: Joseph Spink, 907 5th St., Sacramento.

LOW BIDS: A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $163,280; J. R. Reeves, Box 1072, Sacramento, $179,978; McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $184,356.

PB 8-16. Previous report 8-

▲**PUMPING STATION—** **Sacramento, Calif.**

Bids received by City Council, City Hall, Sacramento, for construction of a pumping station in Colonial Village, Sacramento. ONLY BIDS: A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $92,898; Morris De Rock, Davis, $118,500.

PB 8-16

★**FLOOD CONTROL—** **Sacramento, Calif.**

Award to A. Teichert and Son, Inc., Box 1118, Stockton, $67,562, by State Department of Water Resources, 401 Public Works Bldg., Sacramento, for flood control improvements to Colusa-Sacramento River State Park, Colusa County. PB 8-16. Previous report 8-

★**SEWER REALIGNMENT—** **Sacramento, Calif.**

Award to Granite Construction Co., Box 900, Watsonville, $61,779, by Sacramento County Board of Supervisors, Administration Bldg., Sacramento, for South Sacramento State Freeway sewer realignment, County Sanitation Dist. 1.

PB 8-16. Previous report 8-2

▲**STATE HIGHWAY PROJECTS—** **Sacramento, Calif.**

Bids received August 13 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects.

II-SIS-3-DMR,A—Removing slide material, flattening cut slope, installing horizontal drains, northeast city limits of Dunsmuir, Siskiyou County.

ONLY BIDS: McCammon-Wunderlich Co., Box 359, Palo Alto, $57,155; P & Z Co., 120 S. Maple, South San Francisco, $60,647.

II-SHA-20-A—Grading, plantmix surfacing on untreated base, restoring embankment slopes, 0.2 mi., between Buckhorn Summit and 1.2 mi. east, Shasta County.

LOW BIDS: Harold P. Hastings, Box 546, Lakeport, $44,850; Peter J. Barretta, 14950 Chalk Hill Road, Healdsburg, $47,892; Trinity Construction Co., Box 1642, Redding, $55,971.

III-COL-15-E—Widening, grading, plantmix surfacing on untreated base, 5.3 mi.; reinforced concrete bridge; widening existing bridge; west of Williams to Williams, Colusa County.

LOW BIDS: M. J. Ruddy & Son, Route 6, Box 1419-A, Modesto, $341,495; A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $344,739; L. B. Wells Construction Co., Box 1311, Visalia, $363,211.

IV-SON-1218—Grading, plantmix surfacing on untreated base, 0.5 mi. two-lane highway, Madrone Rd. between 0.5 mi. east of Arnold Drive and State Rt. 51, Sonoma County.

LOW BIDS: Frank W. Serres, 16060 Sonoma Highway, Sonoma, $47,997; Oliver De Silva, Inc., 2333 Eden Road, San Leandro, $50,921; Flinsen Construction Co., Napa, $51,094.

X-MPA-966—Grading, placing untreated base, installing drainage structures, 3.5 mi., between State Rt. 18 and Bear Creek, Hornitos Rd., Mariposa County.

LOW BIDS: F. K. Mittry & Sons, 15905 S. Broadway, Gardena, $157,683; John Delphia, and Fred J. Early, Box 607, Patterson, $170,322; Harms Bros., 5261 Stockton Blvd., Sacramento, $191,188.

II-PLU,LAS-21,29-B — Grading, plantmix surfacing, two sand bunker buildings at Greenville wye and 1 mi. east of Copperopolis, Plumas and Lassen counties.

LOW BIDS: Fife, Coffman & Mills, 561 Vermont, Gridley, $60,594; Bos Construction Co., 1035 Grayson, Berkeley, $61,535; The Pacific Co., 6971 Eastside Road, Redding, $62,370.

I-HUM-FAS 972— Constructing bridge approaches, bridge approach roadways with imported borrow and untreated base, across Moseley Slough, 3.5 mi. west of Loleta, Humboldt County.

LOW BIDS: Waldo Tenkiet, San Francisco, $46,290; R. H. Douglas, Box 884, Fortuna, $52,749; Bos Construction Co., 1035 Grayson, Berkeley, $54,547.

II-SHA-3-C—Horizontal drains, plantmix surfacing on untreated base, 0.1 mi., 30 mi. north of Redding, Shasta County.

ONLY BIDS: McCammon - Wunderlich, Box 359, Palo Alto, $87,315; P & Z Co., 120 S. Maple, South San Francisco, $89,245.

RB 8-16. Previous report 8-2

★STATE HIGHWAY PROJECT— Sacramento, Calif.

Award to Britt Pugh, Box 571, Ukiah, $64,829, by California Division of Highways, 510 Public Works Bldg., Sacramento, for grading, drainage facilities, 5.8 mi., Centerville Rd. between 11.8 and 17.6 mi. east of Canby, Modoc County; II-MOD-1253. Bids opened July 30. PB 8-16. Previous report 8-2

★STATE HIGHWAY PROJECT— Sacramento, Calif.

Award to McCammon-Wunderlich Construction Co., Box 359, Palo Alto, $4,140,558, by California Division of Highways, 510 Public Works Bldg., Sacramento, for grading, plantmix surfacing, frontage roads, ramps, connections, 4-lane freeway, 3.7 mi.; eight bridges; between south of Shasta-Siskiyou County line and Sacramento River Bridge in Dunsmuir, Shasta and Siskiyou counties; II-SHA,SIS-3-D,A,DMR. Bids opened July 30.

PB 8-16. Previous report 8-9

★STATE HIGHWAY PROJECT— Sacramento, Calif.

Award to A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $27,100, by California Division of Highways, 510 Public Works Bldg., Sacramento, for placing imported subbase material, plantmix surfacing, constructing riprap, 1.6 mi., Oroville-Gridley Highway, from State Rt. 87 west, Butte County; III-BUT-758. Bids opened July 16.

PB 8-16. Previous report 8-21

●STATE HIGHWAY PROJECT— Sacramento, Calif.

Bids will be opened 2 p.m., September 17, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction project. Plans with state highway engineer, above address.

IV-SCL-5-SJS,D—Grading, portland cement concrete paving on cement treated subgrade, plantmix surfacing on cement treated base and untreated base, seven bridges, two pumping plants, electrical systems, 2.5 mi. four-lane divided highway with ramps, connections and frontage roads between Bascom Ave. and N. Fourth St., Santa Clara County. PB 8-16

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids will be opened 2 p.m., September 10, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects. Plans with state highway engineer, above address.

IV-ALA-1019—Grading, plantmix surfacing on cement treated base and existing pavement, 1.7 mi., one steel girder and reinforced concrete bridge, Santa Rita Rd. between Pleasanton and Arroyo Mocho Bridge, Alameda County.

II-TRI-1089—Restoring roadbed, plantmix surfacing on untreated base, 1 mi., on Weaverville-Minersville Rd., between Weaverville and 2 mi. east of Costa Ranch and on Minersville- Scott Mountain Rd. between .6 mi. south of Coffee Creek and Davis Creek, Trinity County.

I-MEN-505—Grading, drainage facilities, 8.2 mi., Longvale Rd. between 1.5 mi. and 9.9 mi. east of Dos Rios, Mendocino County.

III-SAC-932—Constructing bridge across American River at Fair Oaks, Sacramento County.

I-HUM-1-C—Reinforced concrete arch culvert, protective embankment, drainage facilities, 0.2 mi. at Mowry Creek, Humboldt County.

IV-SM,ALA-105-B HAY—Reshaping toll plaza areas, applying penetration treatment, plantmix surfacing bridge deck and toll plaza areas, 4.1 mi., on San Mateo-Hayward Bridge and Toll Plaza, San Mateo and Alameda counties.

I-MEN-15-A—Removing, disposing of slide material, repairing damaged drainage facilities, constructing drainage facilities, 0.2 mi., 2.7 mi. east of Rt. 1, Mendocino County.

III-GLE-531—Applying penetration treatment to untreated base, two-lane highway, 6.1 mi., on Elk Creek-Willows Rd. between Athena and 6 mi. west of Willows, Glenn County.

III-PLA-37-D — Removing, disposing of slide material, 0.2 mi., 0.5 mi. west of Towle, Placer County.

V-SBT-22-A—Constructing bank protection, 1 mi. west of Hollister, San Benito River, San Benito County. PB 8-16

★WIDENING ROAD— San Francisco, Calif.

Award to Cotherman and Judd, Inc., Palo Alto, $13,210, by Department of Public Works, room 282, City Hall, San Francisco, for widening access road to Log Cabin Ranch School for Boys. SF 8-16

★STREET IMPROVEMENT— San Francisco, Calif.

Award to M. J. Lynch, 2251 Revere Ave., San Francisco, $14,473, by Department of Public Works, room 282, City Hall San Francisco, for improving Jerrold Ave. between Quint St. and Southern Pacific Railroad Co. right-of-way. SF 8-16

●CHERRY POWERHOUSE PROJECT— San Francisco, Calif.

Bids will be opened 2 p.m., September 4, by San Francisco Public Utilities Commission, room 287, City Hall, San Francisco, for Canyon Cherry Power Development, Cherry Powerhouse Project (Hetch Hetchy Water Supply Contract 316). Specs with room 600, San Francisco Water Dept. Bldg., 425 Mason St., San Francisco. $100 deposit. Certified check or corporate surety bond 10%. SF 8-16

★PUBLIC UTILITIES PROJECTS— San Francisco, Calif.

Two awards announced by San Francisco Public Utilities Commission, 287 City Hall, on the following projects. Bids opened July 31. AWARDS: Slater Electric Co., 608 Sutter St., Folsom, $490,518, for Canyon-Cherry Power Development transmission line, Moccasin to Jones Point, including conductors and hardware (Hetch Hetchy Water Supply Contract 315); The Fay Improvement Co., 101 Carolina St., San Francisco, $51,233, for draining, paving road R-2 at San Francisco International Airport (Airport Dept. Contract 230).

SF 8-16. Previous report 7-26

●PLANTMIX PAVING, CURBS, GUTTERS— San Mateo, Calif.

Bids will be opened 10 a.m., August 18, bay City Manager, City Hall, San Mateo, for alley improvements, Bayshore Highway Tract, Res. 58-6, involving: 570' type A curb and 18" gutters; 275' reinforced concrete pipe, 12"; 265 ton crusher run base; 285 ton dense grade plantmix; 400' of 2"x8" and 175' of 2"x6" redwood header board. Specs with city engineer, Room 30, City Hall. Certified check or bid bond 10%. BY 8-16

★ROAD IMPROVEMENT— Stockton, Calif.

Award to S. M. McGaw Co., Inc., 2216 E. Miner Ave., Sacramento, $23,650, by City Council, City Hall, Stockton, for improving Brookside Rd. between the new Pershing Ave. bridge and Stagg High School in Stockton. RM 8-16

★INDUSTRIAL SEWER LINE— Stockton, Calif.

Award to Chas. J. Dorfman, 124 N. La Brea Ave., Los Angeles, $934,336, by City Council, City Hall, Stockton, for constructing a concrete sewer line from the southeastern industrial sites at Mariposa Rd. and Highway 99 to the city's main disposal plant in Stockton (Southern Industrial Trunk). Bids opened July 21. RM 8-16

★SIDEWALKS, PAVING, CURBS— Stockton, Calif.

Award to A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $16,250, by City Council, City Hall, Stockton, for improvements at Sherwood Forest Park, sidewalks, paving, curbs, gutters, et al., in Stockton. Bids opened July 21. RM 8-16

★BRIDGES— Stockton, Calif.

Two awards announced by City Council, City Hall, Stockton, for construction of the Pershing Ave. Bridge and the El Dorado St. Bridge over the Calaveras River in Stockton. Both contracts awarded to Lord and Bishop, Inc., Box 812, Sacramento, $219,023 (Pershing), $332,565 (El Dorado). Bids opened July 21. RM 8-16

▲DREDGING— Stockton, Calif.

Bids received August 7 by Corps of Engineers, 1209 Eighth St., Sacramento, for 222,000 c.y. dredging, Stockton Deep Water Channel at confluence of San Joaquin River and Stockton Channel, San Joaquin County, Calif.; CIVENG-04-167-59-13. ONLY BIDS: Olympian Dredging Co., 525 Market St., San Francisco, $132,026; Hydraulic Dredging Co., 1221 Central Blvd., Oakland, $152,750.

RM 8-16. Previous report 8-2

●VALVES, METALWORK— Trinity Dam, Calif.

Bids will be opened 2 p.m., M.S.T., September 16, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing (fob shipping point or Redding, Calif.) two 84" hollow-jet valves, one set of handling equipment, and two lots of support metalwork for outlet works at Trinity Dam, Trinity River Division, Central Valley Project, Calif.; Inv. No. DS-5091. Specs with above address. Delivery time: 360 days. RM 8-16

●PUMPING PLANTS— Tule Lake, Calif.

Bids will be opened 2 p.m., August 26, by Bureau of Reclamation, Box 312, Klamath Falls, Ore., for Coppock Bay pumping plants "U" and "V" and M Canal and 100-D-1 modifications near Tule Lake, Modoc County, Calif.; Spec. 200C-393. Specs with above ad-

dress or B. P. Bellport, director, region 2, Box 2511, Sacramento. Bid bond 10%. Completion time: 150 days. Work includes earthwork for deepening 100-D-1 drain; embankments along tops of existing M canal banks; earthwork for and construction of a treated-timber pumping plant with reinforced-concrete discharge structure, and a reinforced-concrete pumping plant and discharge box with pipe outlet; installing three 10 cu. ft. per sec. pumping units, trashracks, steel discharge pipes and flap gates; electrical systems for pumping plants; earthwork for and laying 36" and 18" diameter corrugated-metal pipe; modifying existing reinforced concrete wasteway structure.
RM 8-16

● **EROSION CONTROL—** **Ukiah, Calif.**

Bid opening extended from August 12 to 2 p.m., P.D.S.T., August 19, by Corps of Engineers, 180 New Montgomery St., San Francisco, for shaping ground surfaces, fertilizing, seeding, mulching 94 acres, Erosion Control, Coyote Dam, Ukiah, Mendocino County, Calif.; CIVENG-04-203-59-34. Specs

with above address. Bid bond 20%.
pletion time: 60 days.
RM 8-16. Previous repo

● **HOGAN DAMSITE EXPLORATION,**
Valley Springs,

Bids will be opened 2 p.m., D.S.T., A 28, by Corps of Engineers, 305 Wright 1209 Eighth St., Sacramento, for explor work for Hogan Damsite, Calaveras approximately 4 mi. southeast of V Springs, Calif.; CIVENG-04-167-59-16. with above address. Bid bond 20%. Bi

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

EARTHWORK, STRUCTURES
BIDS CLOSE 10 A.M., P.S.T., SEPTEMBER 18
Ephrata, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5093) will be received at Ephrata, Washington, until September 18, 1958, for furnishing labor and materials for earthwork and structures, Block 82, laterals, wasteways, and drains, Royal Branch Canal Laterals, Columbia Basin Project, Washington. Location east of Vantage, Washington. Principal items are 1,060,000 cu. yds. excavation; 140,000 cu. yds. earth lining of laterals; 2,300 cu. yds. concrete in structures; 1,490 lin. ft. corrugated-metal pipe; 14,440 lin. ft. concrete pipe; and other work. Completion time 520 days. For particulars, address Bureau of Reclamation, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6257—8-16

OUTLET WORKS EQUIPMENT
BIDS CLOSE SEPTEMBER 16
Trinity Dam, California
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-5091) will be received at Denver, Colorado, until September 16, 1958, for furnishing two (2) 84-inch hollow-jet valves with valve support metalwork and one set of handling equipment for outlet works at Trinity Dam, Central Valley Project, California. Delivery is desired within 360 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6259—8-16

GRADING, BITUMINOUS SURFACING
BIDS CLOSE 11 A.M., P.S.T., SEPTEMBER 2
Juneau, Alaska
NOTICE TO CONTRACTORS

August 8, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Alaska Forest Highway Project 35-A, Contract No. 1, and Alaska Forest Development Road Project 0802, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., September 2, 1958, in Room 319, Federal Building, Juneau, Alaska. Work will consist of grading and bituminous surfacing of 5.9 miles of the road between the Seward - Anchorage Highway and Portage Glacier Lake, with a 0.7 miles spur to Byron Glacier. Principal items of work are unclassified excavation—115,000 cubic yards; borrow excavation, Case 1—172,000 cubic yards; overhaul of borrow, Case 1—83,000 yard miles; crushed aggregate base, grading D-1—28,900 tons; aggregate, designation AT 50, bituminous surface treatment—3,450 tons. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6262—8-16, 23

GRADING, SURFACING, BRIDGES
BIDS CLOSE 10 A.M., AUGUST 29
Snohomish County, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, August 15, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m. on August 29, 1958, for furnishing the material and performing the work for constructing 4.426 miles grading and surfacing and two precast concrete and timber bridges 60' and 90' long, Washington Forest Highway Project 7-J, SOUTH FORK STILLAGUAMISH HIGHWAY, Mt. Baker National Forest, Snohomish County, Washington, involving 43 acres Clearing and grubbing; 167,000 cu. yds. Excavation; 40,000 tons Special subbase; 14,600 tons Crushed aggregate; 225 tons Asphalt MC-3; 221 cu. yds. Concrete; 47,200 lbs. Reinforcement steel; 4,500 lin. ft. Culvert pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA 6-3361, Extension 460.) B. M. FRENCH, Regional Engineer.
6260—8-16

REROOFING GARAGE
BIDS CLOSE 11 A.M., P.S.T., AUGUST 26
Glenallen, Alaska
NOTICE TO CONTRACTORS

August 7, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project F-02(59), Contract No. 1, Reroofing of Glenallen Depot Garage, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., August 26, 1958, in Room 319, Federal Building, Juneau, Alaska. Principal item of work consists of reroofing the 89'x100' maintenance garage at the Glenallen BPR Depot, Glenallen, Alaska. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6261—8-16, 23

GRADING, BALLASTING
BIDS CLOSE 11 A.M., P.S.T., AUGUST
Juneau, Alaska
NOTICE TO CONTRACTORS

August 8, 1958, Juneau, Alaska. Departme of Commerce, Bureau of Public Roads, R gion 10. Sealed bids in single copy for fu nishing all labor, equipment and materi and performing all work for Project D 0510(3), Grading and Drainage of 8.6 mi of the Houston-Willow Road, Territory Alaska, described herein, will be receiv until 11:00 a.m., P.S.T., August 29, 1958, Room 319, Federal Building, Juneau, Alask Principal items of work consist of unclas fied excavation—425,000 cubic yards; borr excavation, Case 1—71,000 cubic yards; ove haul of borrow, Case 1—74,600 yard mile 24" bituminous-coated corrugated met pipe—2798 lineal feet; 36" bituminous-coate corrugated metal pipe—1138 lineal feet; 6 bituminous-coated corrugated metal pipe 396 lineal feet; 144" bituminous-coated stru tural-plate pipe, 8 gage—84 lineal fe Specifications and plans may be obtain free of charge by all who have a bonafi need for them for bidding purposes at Roo 311, Federal Building, Juneau, Alaska. It requested that plans be returned to t Division Engineer, Bureau of Public Roa Anchorage, Alaska. A bid guaranty in minimum amount of 5% of the bid amo and conforming to the requirements of St dard Form 22 shall be required with e bid. If the bidder fails to accompany bid with the required bid guaranty, his will not be read or otherwise consider Telegraphic notification of execution o Bid Bond does not meet the above requi ment of a bid bond accompany a bid. E Swick, Regional Engineer.
6263—8-16, 23

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., AUGUST 27
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects w be received by the Montana Highway Co mission at the offices of said Commission the City of Helena until 9:00 A.M. on Aug 27, 1958. The proposal will be publi opened and read immediately thereaf YOUR ATTENTION IS DIRECTED TO T 9:00 A.M. HOUR SET FOR THE OPENI OF BIDS IN ROOM 151 OF THE STA HIGHWAY DEPARTMENT BUILDING.

The Form For Bid Bond is no longer i cluded in the "Instruction to Bidders" a no bid bond will be acceptable. No propo

will be considered unless accompanied by a proposal guaranty, in an amount of at least (5) per cent of the bid, made unconditionally payable to the State Highway Commission of Montana, which at the bidder's option may be cash, cashier's check, certified check, bank, postal or express money order, or bank draft.

1. **I 15-1(7)9**—Furnish and place signs and delineators on 17.1 miles on the Monida-North Road in Beaverhead County, involving about 1,399 sq. ft. sheet aluminum; 1,729.3 sq. ft. extruded aluminum; 217 sq. ft. plywood; 11,902 lbs. steel I-sign posts; 19,152 lbs. steel U-sign posts; 7,174 MBM treated timber sign posts; 84 lin. ft. treated timber sign poles; 1,340 each delineators and 1 changeable copy sign. Project to be completed in 45 Calendar Days.

2. **I 15-5(8)230**—Furnish and place signs and delineators on 12.5 miles on the Cascade-Ulm Road in Cascade County, involving about 1,047 sq. ft. sheet aluminum; 628 sq. ft. extruded aluminum; 114 sq. ft. plywood; 2,650 lbs. steel I-sign posts; 11,732 lbs. steel U-sign posts; 4,854 MBM treated timber sign posts; 252 lin. ft. treated timber sign poles and 794 each delineators. Project to be completed in 45 Calendar Days.

3. **I 15-5(9)275 Unit 1**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain 8.337 miles on the Sun River - Great Falls Road in Cascade County, involving about 2,860,399 cu. yds. excavation; 912,745 mi. yds. overhaul; 9,077 units rolling; 58,009 M gal. watering; 147 hours watering; 334,562 tons crushed aggregate; 427,452 tons uncrushed aggregate; 4,218.77 tons penetration asphalt; 568.84 tons cutback asphalt; 474.80 tons emulsified asphalt; 76,627 tons plant mix; 876 lin. ft. remove concrete curb; 100 lin. ft. relay pipe culverts; 604 cu. yds. gravel backfill; 431 lin. ft. structural plate pipe; 5,548 lin. ft. reinforced concrete pipe; 5,779 rods wire fence, 162 each fence panels; 33,850 lin. ft. guard rail; 293.4 sq. yds. concrete pavement; 868 lin. ft. concrete median curb; 21 each inlet covers; all lump sum weight station; all lump sum conduit system; 249 lin. ft. jiggle bars; and other items. Project to be completed in 380 calendar days.

4. **I 15-5(9)275 Unit 2**—The construction of one 108' dual and one 218.9' single concrete structure, and three 17.25' concrete junior grade separations on the Sun River-Great Falls Road in Cascade County, involving about 1,260 lin. ft. precast prestressed concrete beam; 1,935 cu. yds. structure excavation; 1,929.8 cu. yds. concrete; 219,064 lbs. reinforcing steel; all lump sum structural steel; all lump sum treated timber test piles; 11,350 lin. ft. furnishing treated timber piles; 10,958 lin. ft. driving treated timber piles; 550.42 lin. ft. steel beam bridge rail; 440 lin. ft. steel bridge rail; and all lump sum conduit system. Project to be completed by September 30, 1959.

5. **I 90-1(5)46**—The construction of one 620.92' and one 800.92' steel and concrete bridge on the Superior-East and West Road in Mineral County, involving about 1,195 cu. yds. excavation; 56 each floor drains; 4,755 cu. yds. structure excavation; all lump sum shoring and cribs; 3,309.9 cu. yds. concrete; 364,573 lbs. reinforcing steel; all lump sum structural steel; all lump sum untreated timber test piles; all lump sum treated timber test piles; 11,770.0 lin. ft. furnishing untreated timber piles; 9,811.5 lin. ft. drive untreated timber piles; 3,442.0 lin. ft. driving treated timber piles; 3540.0 lin. ft. furnish treated timber piles; and 2,847 lin. ft. steel bridge rail. Project to be completed by July 31, 1960.

6. **I 90-7(5)139**—Furnish and place signs and delineators on 11.8 miles on the Springdale-West Road in Park County, involving about 628 sq. ft. sheet aluminum; 260 sq. ft. extruded aluminum; 58 sq. ft. plywood; 18,938 lbs. steel U-sign posts; 2.888 MBM treated timber sign posts; 168 lin. ft. treated timber sign poles; and 884 each delineators. Project to be complete in 45 calendar days.

7. **I 90-8(7)394**—The construction of one 576' steel and concrete bridge over the Yellowstone River abopt 6.5 miles east of Reedpoint on the Reedpoint-Columbus Road in Stillwater County, involving about 20 each floor drains; all lump sum shoring and cribs; all lump sum test piles; 1,485 cu. yds. structure excavation; 1,344.4 cu. yds. concrete; 97,009 lbs. reinforcing steel; all lump sum structural steel; 24,990 lbs. furnishing steel bearing piles; 569 lin. ft. driving steel bearing piles; and 1,156.22 lin. ft. steel bridge rail. Project to be complete by November 30, 1959.

8. **F 217(10)** — Grade, aggregate surfacing and drain 9.7 miles on the Gardiner-Livingston Road in Park County, involving about 623,571 cu. yds. excavation; 1,832 units rolling; 12,277 M gals. watering; 119,674 tons crushed aggregate; 26,503 tons uncrushed aggregate; 21 lin. ft. relay pipe culverts; 544 cu. yds. gravel backfill; 285 lin. ft. corrugated metal pipe; 460 lin. ft. structural plate pipe; 2,240 lin. ft. reinforced concrete pipe; 114.6 tons bentonite canal liner; all lump sum remove existing structures; and other items. Project to be completed in 220 calendar days.

9. **DF 387(6)** — Grade, aggregate surfacing, plant-mix bituminous surfacing and seal-coat oiling 10.449 miles on the Dillon-Twin Bridges Road in Beaverhead and Madison counties, involving about 3,018 cu. yds. excavation; 79 units rolling; 101 M gals. watering; 54 hours watering; 6,821 tons crushed aggregate; 1,408.37 tons penetration asphalt; 5.51 tons cutback asphalt; 169.82 tons emulsified asphalt; 25,625 tons plant mix; 43 each remove guide posts and 2,150 lin. ft. guard rail. Project to be completed in 100 calendar days.

10. **S 45(8)**—Grade, aggregate surfacing, and drain 5.668 miles on the Brandenberg-Garland-Miles City Road in Custer County, involving about 329,858 cu. yds. excavation; 32,768 mi. yds. overhaul; 165 units rolling; 5,749 M gals. watering; 41,320 tons crushed aggregate; 175 cu. yds. riprap; 105 lin. ft. relay pipe culverts; 263 cu. yds. gravel backfill; 1,344 lin. ft. corrugated metal pipe; 192 lin. ft. structural plate pipe; and other items. Project to be completed in 150 calendar days.

11. **DS 49(6)**—Aggregate surfacing 3.268 miles on the White Sulphur Springs-West Road in Meagher County, involving about 519 cu. yds. binder; 1,038 mi. yds. overhaul on binder; 102 units rolling; 509 M gals. watering; and 25,474 tons crushed aggregate. Project to be completed in 80 calendar days.

12. **S 51(4)**—Grade, aggregate surfacing, and drain 4.597 miles on the Knobs-Webster-Baker Road in Fallon County, involving about 151,475 cu. yds. excavation; 5,538 mi. yds. overhaul; 104 units rolling; 2,785 M gals. watering; 26,029 tons crushed aggregate; 583 cu. yds. binder; 100 lin. ft. relay pipe culverts; 87 cu. yds. gravel backfill; 1,005 lin. ft. corrugated metal pipe; 116 lin. ft. structural plate pipe; and other items. Project to be completed in 120 calendar days.

13. **DS 64(2) and S 64(3)**—Grade, aggregate surfacing, drain, and construction of one 57.0' treated timber bridge on 8.709 miles on the Shawmut-Hedgesville Road in Wheatland County, involving about 357,114 cu. yds. excavation; 69,852 mi. yds. overhaul; 171 units rolling; 6,195 M gals. watering; 42,752 tons crushed aggregate; 252 lin. ft. relay pipe culverts; 180 cu. yds. gravel backfill; 2,768 lin. ft. corrugated metal pipe; 190 lin. ft. structural plate pipe; 0.872 MBM untreated timber; 20.616 MBM treated timber; 630 lin. ft. treated timber piles; and other items. Project to be completed in 160 calendar days.

14. **S 228(1)**—Grade, aggregate surfacing, bituminous surface treatment, and drain 17.789 miles on the Wolf Creek-Augusta Road in Lewis and Clark County, involving about all lump sum clearing and grubbing; 677,825 cu. yds. excavation; 5,903 mi. yds. overhaul; 2,573 units rolling; 14,741 M gals. watering; 206 hours watering; 230,023 tons crushed aggregate; 18,265 tons uncrushed aggregate; 408.68 tons cutback asphalt; 408.68 tons emulsified asphalt; all lump sum remove miscellaneous items; 225 cu. yds. riprap; 108 lin. ft. relay pipe culverts; 485 cu. yds. gravel backfill; 394 lin. ft. corrugated metal pipe; 374 lin. ft. structural plate pipe; 5,930 lin. ft. reinforced concrete pipe; and other items. Project to be completed in 200 calendar days.

15. **DS 261(2)**—Grade, aggregate surfacing, road-mix bituminous surfacing, seal-coat oiling, and drain 2.150 miles on the Big Spring-North Road in Fergus County, involving about all lump sum clearing and grubbing; 104,117 cu. yds. excavation; 6,264 mi. yds. overhaul; 380 units rolling; 2,208 M gals. watering; 12 hours watering; 38,055 tons crushed aggregate; 255.35 tons cutback asphalt; 39.88 tons emulsified asphalt; 2.144 miles processing; 1,193 sq. yds. processing; 24.5 cu. yds. riprap; 160 lin. ft. relay pipe culverts; 310 cu. yds. gravel backfill; 798 lin. ft. corrugated metal pipe; 250 lin. ft. structural plate pipe; 614 lin. ft. remove guard rail; all lump sum remove existing structure; and other items. Project to be completed in 90 calendar days.

16. **DS 289(7) and DS 346(4)**—Grade, aggregate surfacing, and drain 7.676 miles on the Red Lodge-Columbus Road in Carbon and Stillwater counties, involving about all lump sum clearing and grubbing; 231,193 cu. yds. excavation; 24,830 mi. yds. overhaul; 599 units rolling; 4,142 M gals. watering; 36,523 tons crushed aggregate; 310.14 cu. yds. riprap; 100 lin. ft. relay pipe culverts; 300 cu. yds. gravel backfill; 1,256 lin. ft. corrugated metal pipe; 424 lin. ft. structural plate pipe; 4,169 lin. ft. reinforced concrete pipe; all lump sum remove existing structures; and other items. Project to be completed in 150 calendar days.

17. **SMP 1599**—Crushed and stockpile ⅝" aggregate surfacing from ten crusher setups in Flathead, Lake, and Lincoln Counties, involving about 105,000 tons crushed aggregate and 28,650 ton-mile haul. Project to be completed by June 30, 1959.

The above listed quantities are approximate only.

Prequalification of bidders, at least 72 hours prior to the opening of bids, is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, in Helena, Montana. Plans and specifications for all Federal Aid Projects are also on file and may be examined in the offices of the Bureau of Public Roads, in Helena, Montana.

Harry L. Burns, Chairman

Fred Quinnell, Jr., State Highway Engineer

6256—8-16, 23

WATER WELL

BIDS CLOSE 11 A.M., P.S.T., AUGUST 26

Juneau, Alaska

NOTICE TO CONTRACTORS

Date: August 5, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project F-042-3(1), Water Well at Eureka Depot, Glenn Highway, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., August 26, 1958, in Room 319, Federal Building, Juneau, Alaska. The principal item of work consists of drilling and casing a water well approximately 165' west and 53' south of a point on the Glenn Highway opposite ACS Pole 6743, at the site of the proposed Eureka Maintenance Depot. Specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6255—8-16, 23

DISMANTLE, TRANSPORT BRIDGE

BIDS CLOSE 11 A.M., P.S.T., SEPTEMBER 2

Juneau, Alaska

NOTICE TO CONTRACTORS

Date: August 1, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project S-0141(5), Dismantling and Hauling Old High Truss Bridge over the Chena River at Cushman Street, Fairbanks, Territory of Alaska, described herein, will be received until 11:00 a.m., PST, September 2, 1958, in room 319, Federal Building, Juneau, Alaska. The principal item of work consists of dismantling and transporting to Nome, Alaska, the exist-

ing 300'x18'6" (20' C-C trusses) pin-connected steel high truss span over the Chena River at Cushman Street, Fairbanks, Alaska. Also, dismantling and stockpiling of 17'x 18'6" timber approach span. The bridge must be dismantled and the site cleared by December 1, 1958. Delivery of the steel truss span to Nome shall be completed by July 1, 1959. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Fairbanks, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bond does not meet the above requirement of a bid bond accompanying a bid.

E. H. Swick
Regional Engineer

6249—8-9, 16

OUTDOOR TRANSFORMERS
BIDS CLOSE SEPTEMBER 25
Fort Peck Project, Montana
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-5092) will be received at Denver, Colorado, until September 25, 1958, for furnishing three (3) 20,000-kva, 220- to 115-kv, 1 phase, outdoor autotransformers, equipped with tank-mounted arresters for Dawson County Substation, Fort Peck Project, Montana. Delivery is desired within 525 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6258—8-16

GRADING
BIDS CLOSE 10 A.M., AUGUST 28
Skagit County, Washington
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, August 15, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m. on August 28, 1958, for furnishing the material and performing the work for constructing 4.016 miles Grading, Washington Forest Development Road Project Mt. Baker National Forest, Skagit County, Washington, involving 23 acres Clearing and Grubbing; 153,000 cu. yds. Excavation; 3,100 lin. ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA 6-3361, Ext. 460.) B. M. FRENCH, Regional Engineer.
6264—8-16

GRADING, DRAINING, CONSTRUCTING BRIDGE
BIDS CLOSE 11 A.M., P.S.T., SEPTEMBER 2
Juneau, Alaska
NOTICE TO CONTRACTORS

Date: August 1, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project F-021-1(1), Sterling Highway, involving grading and drainage of 15.3 miles between Anchor Point and Homer, Alaska, and constructing an 80'x28' concrete and steel bridge across the Anchor River, Territory of Alaska, described herein, will be received until 11:00 a.m., PST, September 2, 1958, in Room 319, Federal Building, Juneau, Alaska. The principal items of work consists of the following: clearing and grubbing—200 acres; unclassified excavation—816,000 cubic yards; borrow excavation, Case 1—240,000 cubic yards; overhaul of borrow, Case 1—312,000 yard miles; 96" bituminous-coated structural plate pipe, 8 gage—910 lineal feet; Class "A" concrete—93.7 cubic yards; structural steel, A242, furnished, fabricated and erected—66,685 pounds. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirement of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid.

E. H. Swick
Regional Engineer

6250—8-9, 16

CLEARING, DRAINING
BIDS CLOSE 11 A.M., P.S.T., SEPTEMBER 2
Juneau, Alaska
NOTICE TO CONTRACTORS

August 12, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project FH 7-G and DS-0937(3), Mitkof Highway, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., September 2, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of grading and drainage of 6.6 miles of the Mitkof Highway between Blind Slough and Sumner Strait, Petersburg, First Judicial Division, Territory of Alaska. Principal items of work include clearing—42.5 acres; grubbing—23 acres; unclassified excavation—44,000 cubic yards; borrow excavation, Case 1—134,000 cubic yards. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Juneau, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
8265—8-16, 23

EARTHWORK, CONCRETE LINING, STRUCTURES
BIDS CLOSE 10 A.M., P.S.T., AUGUST 28
Camp White, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5084) will be received at Camp White, Oregon, until 10 a.m., Pacific Standard Time, August 28, 1958, for furnishing labor and materials for earthwork, concrete lining, and structures, Ashland Lateral Diversion Dam and Ashland Lateral Extension, Rogue River Basin Project, Oregon. Location about 8 miles southeast of Ashland, Oregon, in Jackson County. Principal items are 75,000 cu. yds., excavation; 1,600 cu. yds., concrete; 10,880 cu. yds., compacting embankments; and other work. The work is divided into 2 schedules. Completion time 225 days. For particulars, address Bureau of Reclamation, P.O. Box 386, Camp White, Oregon; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6235—8-2

BRIDGES
BIDS CLOSE 11 A.M., P.S.T., AUGUST 25
Juneau, Alaska
NOTICE TO CONTRACTORS

Department of Commerce, Bureau of Public Roads, Region 10. Date: July 25, 1958, Juneau, Alaska. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project S-0131(1), Snake and Penny River Bridges located 7.5 miles and 9.7 miles northwest from Nome on the Nome-Teller Road, Territory of Alaska, described herein will be received until 11:00 a.m., P.S.T., August 25, 1958, in Room 319, Federal Building, Juneau, Alaska. The principal items of work consists of the following: structural steel piles 10BP42, furnished—1170 linear feet; structural steel piles 10BP42, driven—36 each; structural steel A-373—37,325 pounds; structural steel A-242—18,800 pounds; treated timber, creosoted—34.79 MBM. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads at Fairbanks, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid accompanying a bid. E. H. Swick, Regional Engineer.
6240—8-2

TRAIL CONSTRUCTION
BIDS CLOSE 2 P.M., P.S.T., AUGUST 18
Okanogan National Forest, Washington
NOTICE TO CONTRACTORS

Sealed bids for construction of approx. 5.1 miles of Cascade Crest Trail No. 1 on the Okanogan National Forest, Washington, will be received until 2:00 p.m., P.S.T., August 18, 1958, by the Regional Supply Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Okanogan, Washington.
6242—7-30

SEWAGE TREATMENT PLANT
BIDS CLOSE 8 P.M., AUGUST 21
Bellevue, Washington
NOTICE TO CONTRACTORS

Sealed proposolas will be received by the undersigned at the Sewer District Office, 15450 Lake Hills Boulevard, Bellevue, Washington, until 8:00 P.M., August 21, 1958, for the following construction:

SEWAGE TREATMENT PLANT, providing complete treatment for design flow of 0.75 MGD, together with influent sewer and outfall. All materials and equipment shall be furnished by the contractor.

The work shall be performed in accordance with the Plans and Specifications prepared by the District's Engineers, Howard T. Harstad & Associates. The Plans and Specifications may be examined at the Sewer District Office and may be obtained at the office of the Engineers, 2512 2nd Avenue, Seattle 1, Washington, (Phone Main 4-2525) upon deposit of $15.00 per set.

Each bid shall be accompanied by a certified check payable to the order of the King County Treasurer for a sum not less than 5% of the amount of the bid, and no bid will be considered unless accompanied by such check.

At the time and place named, the bids will be publicly opened and read and the Board of Sewer Commissioners will proceed to canvass the bids. The right is reserved to reject any or all bids.

LAKE HILLS SEWER DISTRICT
Thomas A. Kilburn, Secretary
KING COUNTY, WASHINGTON

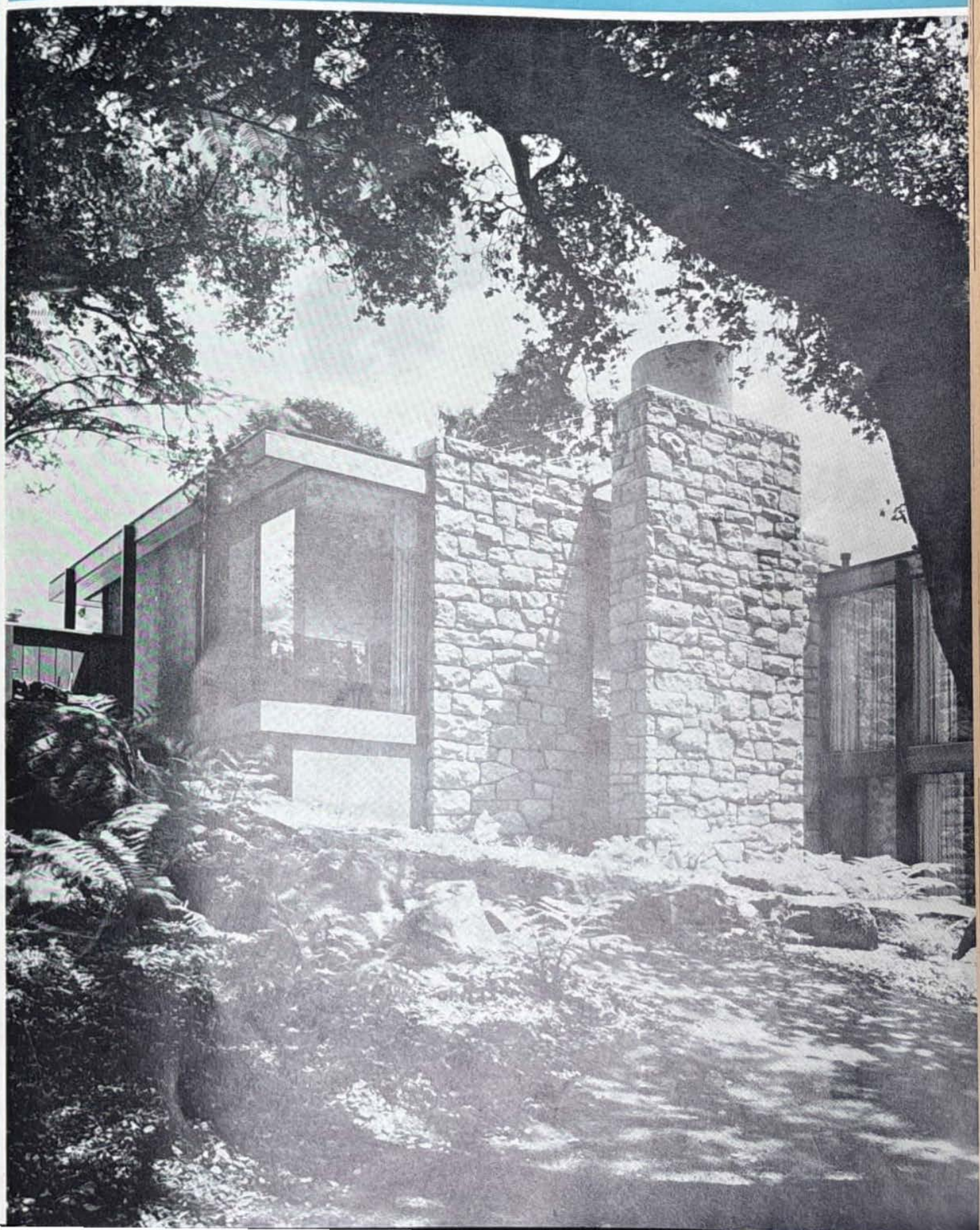
6239—7-29; 8-5

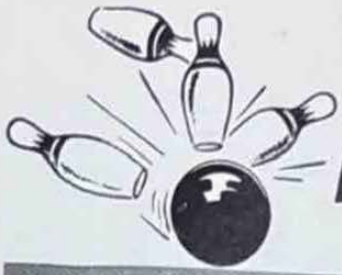
WATER SYSTEM
BIDS CLOSE 2 P.M., P.S.T., AUGUST 21
Chelatchie Prairie, Washington
NOTICE TO CONTRACTORS

Sealed bids for installation of domestic water system at Chelatchie Prairie Ranger Station, Gifford Pinchot National Forest, Wash., will be received until 2:00 p.m., P.S.T., August 21, 1958, by the Regional Supply Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervistor, 801 West 8th St., Vancouver, Washington.
6248—8-5

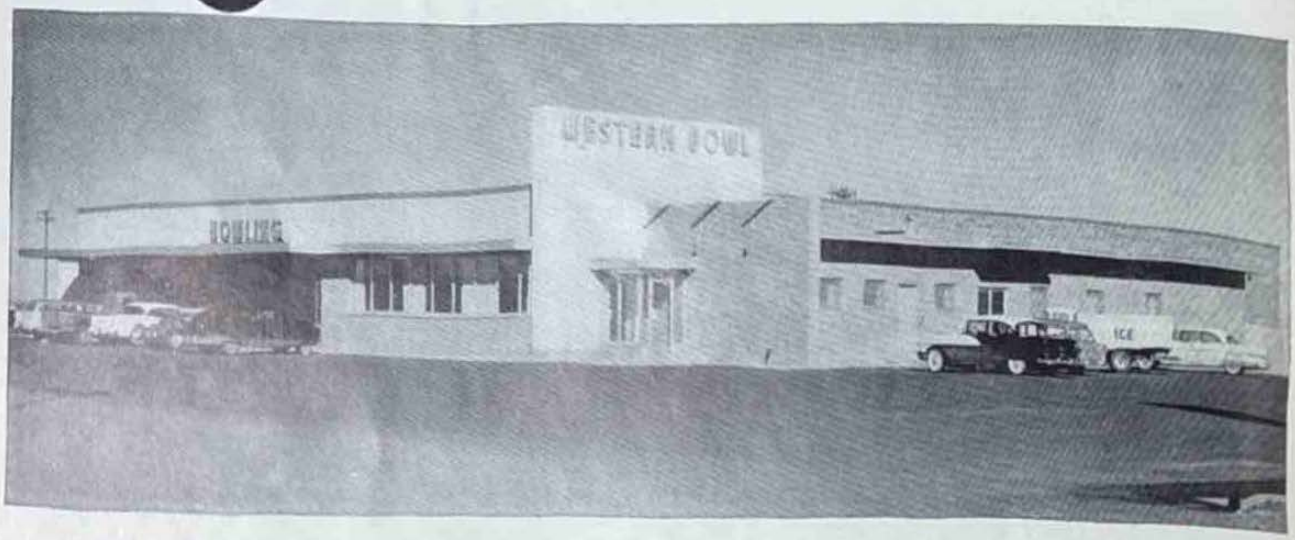
Architecture & Allied Arts
SEP 30 1958

pacific architect and builder

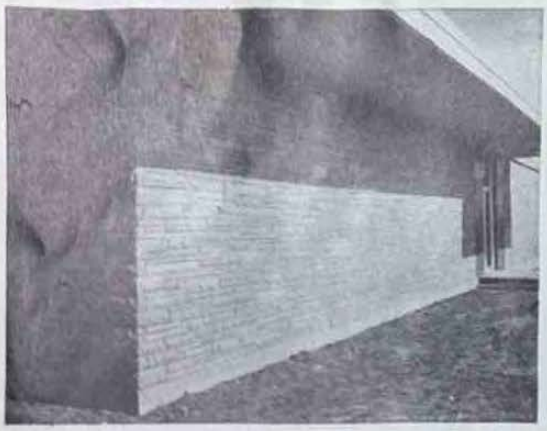




BOWLS 'EM OVER



Lone Star Masonry Cement is High Scorer on Texas Panhandle's Largest Bowling Alley



WESTERN BOWL BOWLING ALLEY
Architect: EDWIN N. BLISS
General Contractor: FLOYD RICHARDS
Sub-Contractor for Masonry: VAN DORAN BRI-TICO CO.
Concrete Supplied by: CROWE-GULDE CEMENT CO.
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6. Makes the addition of water-proofing material unnecessary.

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pa&b
Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 9 SEPTEMBER 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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THE COVER

Residence, Southern California. Thornton Ladd & Associates, Architects; Marvin Rand photo.

BUILDING PERMITS

August volume well ahead of '57

Building permits continue to draw an encouraging picture in the five western states. The August total is $37½ million higher than last year and marks the fourth consecutive month that the volume has shown a gain over 1957. As in previous months, California leads the way, this time with a $29 million increase. Gains in Oregon, Washington, Montana and Idaho range from $¾ million to $3¼ million.

As the tabulation below shows, the August total is $25½ million less than the preceding month. But the drop can be attributed primarily to a leveling off in California which enjoyed an exceptional boom during July. Figures for the other four states are above July.

By the end of August, permits had been granted for $1,798,734,622 worth of buildings in the five states, a $151 million increase over 1957.

	Jan.-Aug. 1958	Jan.-Aug. 1957
Calif.	$1,432,517,096	$1,341,449,807
Ore.	120,303,967	83,777,027
Wash.	208,456,650	189,548,174
Mont.	19,033,545	16,853,824
Idaho	18,423,364	16,084,320

ANALYSIS OF TYPICAL AREAS — AUGUST

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	73	$ 1,402,250	17	$ 269,180	1	$ 114,000
King County	683	7,272,930	116	1,340,920	6	1,185,000
Seattle	549	3,550,794	155	5,089,085	2	2,000,000
Tacoma	125	662,490	37	231,100	2	696,000
Los Angeles County	2,457	24,290,061	287	3,349,736	38	2,546,718
Orange County	538	7,583,270	37	404,175	2	68,000
Sacramento County	618	6,498,948	64	1,297,036	7	188,258

Building Permit Totals for 116 Western Agencies for August

CALIFORNIA	Aug. 1958	July 1958	Aug. 1957
Alameda County	$ 2,559,650	$ 1,226,550	$ 1,490,800
Anaheim	4,664,248	3,235,969	1,279,555
Bakersfield	673,101	1,458,269	2,213,855
Burbank	571,755	1,339,978	1,348,516
Contra Costa County	3,264,949	3,085,283	2,507,908
Fresno	1,364,177	1,482,302	1,025,804
Fullerton	683,856	1,411,073	1,506,476
Glendale	3,669,356	1,959,932	2,149,749
Inglewood	1,060,897	547,023	527,695
Long Beach	3,605,175	19,582,505	3,776,580
Los Angeles	42,969,513	79,751,578	43,842,730
Los Angeles County	31,388,085	21,821,369	20,052,767
Oakland	6,596,793	3,243,483	4,345,719
Ontario	555,651	356,612	1,707,454
Orange County	8,385,512	4,458,228	4,616,581
Palo Alto	492,964	1,503,434	2,664,884
Pasadena	1,450,636	1,325,864	1,026,772
Pomona	631,889	919,322	3,063,230
Richmond	673,163	799,653	809,834
Riverside	2,082,214	1,591,701	1,323,470
Sacramento	2,651,281	2,615,331	2,405,909
Sacramento County	8,124,657	9,492,859	8,424,874
San Bernardino	1,133,395	2,102,569	2,124,346
San Bernardino County	4,772,851	6,880,542	4,411,589
San Diego	11,172,677	14,110,720	12,006,038
San Diego County	7,156,200	5,561,600	4,387,000
San Francisco	6,219,468	5,062,419	4,904,923
San Jose	15,597,285	7,109,064	5,667,910
San Mateo	1,197,087	1,109,444	541,751
San Mateo County	1,548,907	2,066,814	3,463,918
Santa Ana	730,439	3,701,311	1,233,238
Santa Monica	784,960	1,916,585	1,489,188
Stockton	888,118	871,918	750,151
Sunnyvale	2,326,195	1,206,851	1,250,150
Torrance	2,664,053	1,864,466	1,487,701
West Covina	1,580,597	811,846	992,662
TOTAL	$185,831,754	$217,584,467	$156,821,727

OREGON	Aug. 1958	July 1958	Aug. 1957
Albany	$ 185,500	$ 214,050	$ 121,750
Astoria	15,174	65,272	28,957
Baker	37,900	79,000	145,935
Bend	81,365	151,200	84,874
Coos Bay	193,890	116,505	183,220
Corvallis	537,595	319,530	348,405
Eugene	829,609	636,950	407,984
Grants Pass	189,630	115,550	25,420
Gresham	57,974	59,250	59,100
Hillsboro	68,674	70,217	60,215
Klamath Falls	86,615	199,949	285,172
La Grande	6,930	171,960	431,615
Lane County	1,127,183	829,732	1,801,910
Medford	189,295	727,488	202,715
Multnomah County	2,619,723	3,393,446	1,719,800
North Bend	83,269	64,226	233,359
Oregon City	15,608	9,680	76,005
Pendleton	91,370	89,346	73,765
Portland	6,777,070	4,186,225	4,143,105
Roseburg	58,425	50,165	56,040
Salem	392,830	734,550	812,126
Springfield	176,655	136,000	59,875
The Dalles	65,362	90,595	26,790
TOTAL	$ 13,887,646	$ 12,510,886	$ 11,388,137

WASHINGTON	Aug. 1958	July 1958	Aug. 1957
Aberdeen	$ 132,687	$ 1,240,497	$ 61,936
Anacortes	196,580	56,139	360,745
Auburn	143,500	54,800	58,600
Bellingham	97,160	159,268	343,599
Bremerton	153,480	120,180	129,813
Centralia	62,554	112,837	54,300
Chehalis	43,129	43,796	80,740
Clarkston	177,470	50,998	61,629
Ellensburg	74,623	109,195	36,035
Ephrata	53,475	4,856	14,295
Everett	189,500	467,713	133,993
Kelso	247,300	60,200	29,700
Kennewick	221,996	65,370	97,610
King County	9,846,150	6,906,395	6,248,625
Kirkland	41,300	176	63,664
Longview	168,335	281,539	169,604
Moses Lake	94,447	209,653	198,980
Olympia	115,353	240,741	481,987
Pasco	65,610	204,365	98,706
Pierce County	1,767,312	2,216,980	1,235,215
Port Angeles	75,125	25,100	15,230
Puyallup	87,195	400,475	145,275
Ritzville	750	6,500	2,500
Seattle	10,932,919	8,082,459	8,120,138
Shelton	65,100	11,450	6,400
Spokane	1,406,320	1,280,645	2,015,479
Spokane County	1,167,372	1,915,836	2,264,568
Sumner	35,750	195,925	61,200
Tacoma	1,899,131	1,266,099	3,662,920
Vancouver	421,424	529,831	410,347
Walla Walla	222,552	231,009	51,094
Wenatchee	493,249	217,498	142,744
Yakima	144,445	402,876	876,401
TOTAL	$ 30,842,693	$ 27,171,401	$ 27,734,074

MONTANA	Aug. 1958	July 1958	Aug. 1957
Billings	$ 1,375,275	$ 773,550	$ 191,200
Bozeman	1,543,550	262,135	40,900
Butte	58,200	305,375	166,504
Glasgow	42,300	4,500	69,900
Glendive	17,300	20,800	74,734
Great Falls	906,979	865,129	296,297
Helena	275,110	282,360	252,225
Kalispell	103,050	144,600	81,500
Lewistown	24,000	24,800	9,300
Livingston	51,415	6,475	45,827
Miles City	125,830	67,565	43,875
Missoula	66,450	77,040	80,050
TOTAL	$ 4,589,459	$ 2,834,329	$ 1,352,312

IDAHO	Aug. 1958	July 1958	Aug. 1957
Boise	$ 472,611	$ 493,806	$ 332,350
Caldwell	342,010	232,325	29,750
Coeur d'Alene	86,359	56,850	117,760
Idaho Falls	1,343,219	870,955	732,630
Jerome	17,050	5,050	23,100
Lewiston	359,953	347,878	145,745
Nampa	123,385	132,675	49,382
Payette	26,660	70,450	1,710
Pocatello	192,595	257,080	707,625
Sandpoint	15,750	10,575	7,200
St. Maries	1,000	3,000	6,000
Twin Falls	140,600	175,120	165,935
TOTAL	$ 3,121,192	$ 2,655,764	$ 2,319,187
GRAND TOTAL	$237,272,744	$262,756,847	$199,615,437

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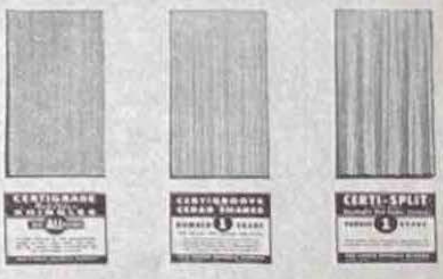
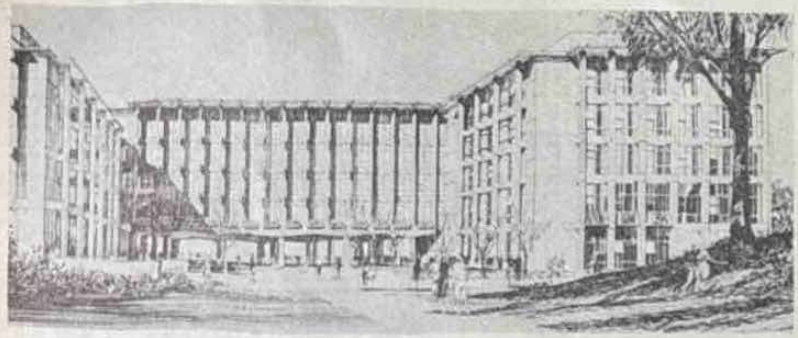


METHODIST RETIREMENT HOME

sited on ridge in Spokane will be $3 million, eight-story reinforced concrete structure faced with aluminum frame, porcelain enamel curtain wall. Rockwood Manor will provide 281 resident apartments in varying size, each with private bath and storage facilities and some with bedrooms and kitchenettes. Besides main lounge (seen in foreground), three others will be available. Other facilities: library, chapel, recreational center, roof deck, beauty salon, 15 two-bed ward infirmary with pharmacy. Architect-engineers: Culler, Gale, Martell & Norrie.

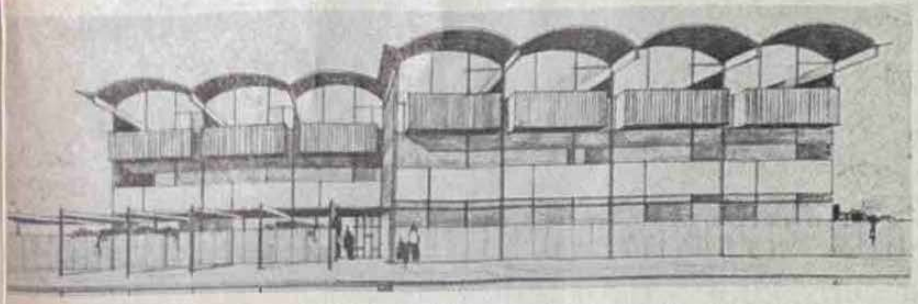


EDUCATION-PSYCHOLOGY BUILDING

on which University of California will begin construction next spring will harmonize with other structures on Berkeley campus, marked by free-standing, disengaged columns on face of building, backed by glass and metal curtain wall. H-shaped plan of $7 million project generally will comprise five stories, but reaching to seven in some sections. Architect: Gardner A. Dailey.

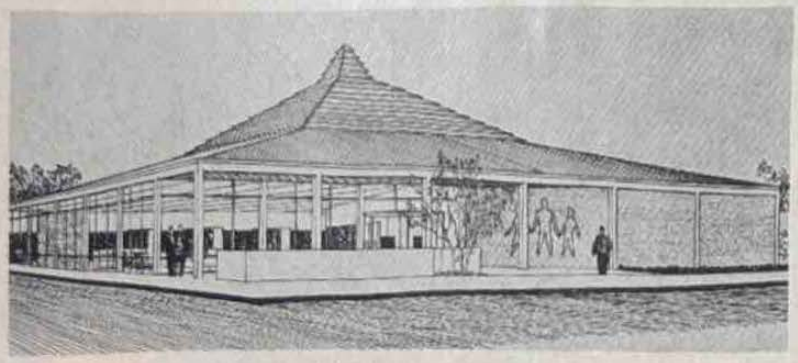
COOPERATIVE APARTMENTS

facing ocean in Long Beach, Calif., will be housed in $3 million, 12-story steel and concrete structure with 44 units, roof terrace and 33,000 sq. ft. of glass. Apartments in Marina Tower will range in cost from $57,000 to $76,000; in size from 2,372 to 3,129 sq. ft., with 36-ft. living rooms and fireplaces. Architects-engineers: Killingsworth-Brady-Smith.



CLINIC AND APARTMENT BUILDING

to be built in Seattle will feature built-up roof of prefabricated insulated, slightly curved plywood panels. Frame structure will have some brick and stone veneer as well as prefinished panels. Ground floor will be devoted to office space for four doctors, second and third floors to 10 apartment units for a total of 13,000 sq. ft. Architects: Johnston-Camponella & Associates.



BRANCH LIBRARY

in Portland's Hollywood district will be colorful affair incorporating three solid panels in brilliant red Venetian glass mosaic; entry sculpture in black painted steel; near-white terrazzo on exposed concrete around columns and beams and at head of windows. Roof design, which developed from two-story buildings surrounding site, began as double hip, point at top being added to meet city requirement for chimney height. Exhaust for gas fired unit will be concealed, running out top. Architects: Stewart & Richardson.

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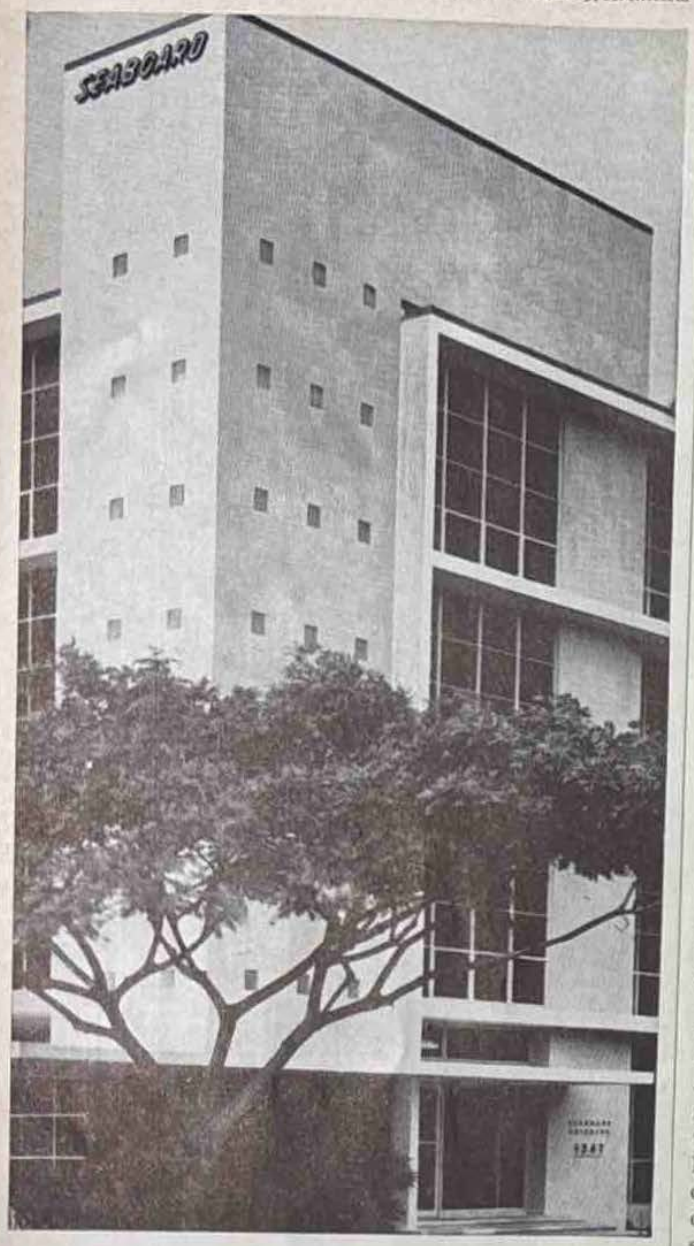
KAISER GYPSUM

KAISER GYPSUM COMPANY, INC. Kaiser Building—1924 Broadway, Oakland, California

Seaboard Finance Co., Honolulu, T.H. Merrill, Simms & Roehrig, Architects



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home builders, housing and human values

September brings with it, to a number of West Coast communities, at least, promotional schemes which carry such tags as Parade of Homes, Pageant of Homes or what have you. To kick off the fall program in the Puget Sound area, home builders and realtors banded together to almost fill the Olympic Hotel's Grand Ballroom and to get a shot in the arm from Stanley Edge of Pittsburgh. The home marketing specialist is a forceful and enthusiastic speaker and when it was all over, one could only wish that he were "selling design" instead of "merchandising houses."

In all fairness to Mr. Edge, it must be reported that he did make several casual references to design and received a ripple of applause when he stated that "more Seattle builders use architects than anywhere in the country." But his statement that "people want to conform," in explaining the No. 1 buying motive of the American public, cannot go unchallenged. Isn't it the other way around, with the home building industry unconsciously helping to reduce our culture to the lowest common denominator?

* * *

In line with all this, the Home Builders Association of Greater Seattle requested that the Washington State Chapter, AIA, select an architect to write an article for its monthly bulletin. The executive committee handed the assignment to A. O. Bumgardner, PA&B's architectural advisor, who wasn't bashful about speaking his piece, as the following excerpts indicate:

"Too often the builder meekly trails along behind the real estate salesman who 'knows what the people want.' Let the builder beware: does he remember how Detroit's auto industry thought it knew what the people wanted? Foreign cars are demonstrating that well-designed products—products of integrity at fair prices—sell!

"As an architect doing residential commissions, I am frequently asked to recommend between buying a speculative house and buying an old one. For all their defects and lack of labor-saving devices, old houses sometimes are more suitable domiciles for rearing families than many of the new ones. More thoughtful planning could increase livability of houses considerably more than all the gimcracks of false fronts, planter boxes and the hodgepodge of siding materials that are supposed to make the house sell.

"Stock plans to fit everyone between eight and eighty, situated on hills scraped and scarred, show little consideration for human values. Our newly created suburbs are rapidly becoming urbanized. Do they solve any of the problems left behind in the city—or will they be tenfold worse in ten years? We brag about democracy; can't we create an environment that stimulates the individual instead of lulling him into conformity at a mediocre level?"

* * *

As a final word, we suggest that you read an architect's probing review (p. 10) of two books which consider housing and its effect on our society—not necessarily the most recent works but certainly among the most significant.

R.E.K.

Los Angeles Editor Has New Address, Phone

PA&B had no sooner announced the appointment of Marvin Hanks as contributing editor for southern California than he up and moved to a new address: 823 Isabel St., Los Angeles 65 (CApitol 1-8115).

NEWS

Los Angeles leads in home building

Los Angeles continued to lead all metropolitan areas in home building nationally in 1957 despite a 10% drop over the year to 80,700 new dwelling units. U.S. Department of Commerce statistics show that three other California areas made the first 10: San Francisco-Oakland, sixth; San Bernadino-Riverside-Ontario, eighth; and San Diego, ninth.

The New York-northeastern New Jersey area, which had yielded the top position to Los Angeles in 1953, continued in second place with 66,300 units in 1957. Chicago, Detroit and Philadelphia followed in that order, with Miami coming in seventh.

Joining the ranks of the top 50 were four other West Coast areas: San Jose, 13th; Seattle, 23rd; Sacramento, 32nd; and Portland, 45th. Largest 1956-57 increases were in San Diego, one of three areas in the country gaining consistently throughout the 1954-57 period, and in San Jose.

Majority of the housing in the 50 leading areas continued to be constructed in the suburbs. Although the majority of the units in multifamily structures were located in the central cities, substantial increases in this type of housing occurred in the suburban fringes in 1957. In Los Angeles and San Francisco, for example, more units in two-family and apartment houses were built in the outlying areas than in the central city sections during 1957.

LEADING WEST COAST AREAS IN HOME BUILDING, 1955-57

Rank				New Dwelling Units		
1957	1956	1955	Metropolitan Area	1957	1956	1955
1	1	1	Los Angeles	80,700	89,300	103,700
6	6	6	San Francisco-Oakland	18,800	22,000	32,100
8	7	8	San Bernardino-Riverside-Ontario	16,300	17,200	18,900
9	11	22	San Diego	16,200	13,300	11,400
13	22	19	San Jose	12,200	9,200	12,600
23	27	25	Seattle	8,000	7,100	9,900
32	31	29	Sacramento	5,000	5,900	8,500
45	37	43	Portland	3,200	4,200	5,100

Meeting will consider new hardwood uses

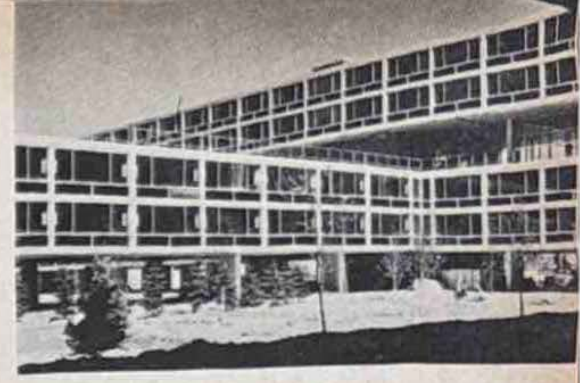
Architects and builders have been invited to hear Burdett Green, authority on hardwoods and their application to interior design, at the annual meeting of the Northwest Hardwood Association September 27 in Portland's Hotel Congress.

While serving for many years as executive vice president of the Fine Hardwoods Association in Chicago, Green assembled what is probably the world's finest collection of hardwood specimens from all parts of the U.S. and abroad. He now is located in Palo Alto, Calif., where as vice president of Elmendorf Research, Inc., he is investigating new uses for Pacific Coast hardwoods.

Other speakers scheduled for the association's third meeting: Marshall N. Dana, former editor of the Oregon Journal, with the United States National Bank; and Ralph V. Backstrom of Great Northern Railway's agricultural and industrial development department.

Art competition slated

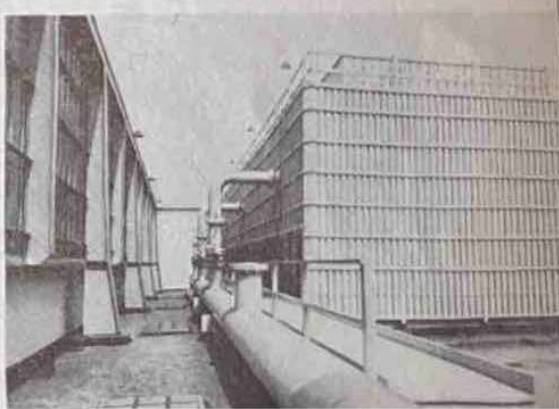
Competition for the design of a bas-relief, mosaic or free-standing sculpture for the lobby of the Logan Building now being constructed in downtown Seattle will be open to all artists and architects in the 11 western states and Alaska. The client, Antero Co., will award $4,500 to the winner, plus costs of executing and supervising installation, with $250 each for second through fifth places and $100 each for sixth through tenth.



INNER COURTYARD
of Cadet Quarters Building is bustling with activity since Air Force Academy moved from its temporary home in Denver to Colorado Springs for beginning of fall term. Skidmore, Owings & Merrill are architects for aluminum curtain wall and glass buildings; Robert E. McKee, Inc., is general contractor for structure shown here.

PORTLAND'S AIRPORT TERMINAL
is now open to traffic, its 18 plane loading positions (designed for expansion up to 34) doubling capacity of old facility. Initial stage is planned to handle one million passengers annually, this peak expected to occur about 1963. Exterior of $5.8 million concrete structure is faced primarily with porcelain enamel panels, with some brick and aluminum sash trim. Architects: Burns, Baer, McNeil & Schneider; prime contractor: Ross B. Hammond Construction Co.

LARGEST FACILITY
of its kind west of Mississippi, $3.5 million structure will eventually provide complete heating and air conditioning service for all county buildings in Los Angeles Civic Center. Automatically engineered plant requires crew of only six operators per shift. Five gas-oil fired boilers, which produce 160,000 lb. of steam hourly, supply heat in winter, power four refrigerator compressors in summer. Plant was designed by M. A. Nishkian & Co., consulting engineers; constructed by Haas-Haynie-Frandsen, Inc.; mechanical installations by Scott Company of Southern California.



Tract housing: 'more philistine aspects'

BOOKS

THE CRACK IN THE PICTURE WINDOW
By John Keats
Houghton Mifflin Co., Boston
The Riverside Press, Cambridge
1957, 196 pp. $3.

THE ORGANIZATION MAN
by William H. Whyte Jr.
Simon & Schuster, New York
1956, 429 pp. $5.

by H. H. WAECHTER, AIA

JOHN KEATS' BOOK, which is written in a zestful journalistic style, is exposing life in our new and vast suburban housing developments and thus is reflecting on our tract builders' accomplishments as designers and planners.

While doing this in an often entertaining manner, Keats cannot suppress his anger at conditions which also to this reviewer appear distasteful, but which are so generally accepted that they need to be explained as part of our present day sociological make-up. While taking a stab at the "identical boxes" in our new "fresh-air slums," Keats is talking about the square miles which are covered by some developers with poorly built, ill-designed and wrongly oriented "homes" of fellow citizens who would be deserving of something better for their money. His criticism of the creation of "stratified societies of singular monotony" is not new, yet no less justified. Indeed, there is one outstanding fact in the postwar housing picture, namely the loud outcry against the living habits and housing conditions in suburbia and in exurbia. We have witnessed "counter-attack against subtopia" and we read learned sociological studies of living conditions under "social pressures" in those architectural wastelands which used to be fruitful acres and orchards. While some observers see our economy threatened by housing cutbacks, others imagine people returning to the big cities in order to find bearable conditions as refugees from suburbia.

Margaret Mead of anthropological fame summed up the situation at the recent AIA convention by saying that "some of our suburbs are concentrations of people of one race, one religion and one mass of prejudices."

After that much has been said, however, to this reviewer, Keats becomes unconvincing in the way he is trying to generalize his findings. This is particularly the case when he is describing how innocent buyers are deceived by cunning salesmen and their profiteering masters. Unless one wants to be blind toward the existence of the profit motive, which is underlying any business transaction, there is no reason to assume that every tract builder is a past master of dishonest practices, fraudulent breach of specifications and other unkind disregards of the buyers' interests.

Another misconception is the assumption that life in the suburbs is considered detrimental by most of the suburbanites. If the author is having Mrs. Drone say that "deep inside her she knew perfectly well that the house she inhabited had helped spoil her day; that it was harming her marriage and corroding her life," he is touching upon true psychological and physiological problems in architecture, but he is also guilty of implying that many people in those developments are actually conscious of the problem and feel like Mrs. Drone.

Continued on p. 32

Tract housing: 'the forces at work'

MOST COMPREHENSIVE and intelligible discussion of the forces at work behind our housing production and thus our housing dwellers is, without doubt, William H. Whyte's "The Organization Man."

Whyte levels a great deal of criticism against conditions as they are; in fact, some of it alarming while coming from an enthusiast of our capitalistic organization. But his criticisms are deeply probing and helpful in understanding the underlying causes of our dilemma. Limiting ourselves to aspects of housing, we cannot dwell on what Whyte calls his theory on Social Ethic. Yet one needs to go through his discourse in order to understand that it is "the new suburbia, the packaged villages that have become the dormitory of the new generation of organized man" and that we are getting in this new suburbia "a preview of the direction the Social Ethic is likely to take in the future."

Whyte feels that we have tried to carry on the Protestant Ethic by which this country was dominated while actually the country had changed. The Organization has created a reality which became more and more divergent from the Protestant Ethic. The small and self-made business man is characterized as a counterrevolutionist, making the industrial corporation a revolutionary force. It is depressing to see in subsequent chapters on the social influences, which are exerted by this revolutionary force, that this new development has to lead to conformism, a situation where "belongingness" is substituted for individual independence. The complex training of Organization Man is revealing the creation of a generation of bureaucrats. The fight against genius takes place because unorthodoxy can be dangerous. Ideas deemed desirable are coming from the group.

Besides training, psychological testing and bureaucratic systematizing are the major tools named as shaping our productive society. Describing the "Organization Man at Home," Whyte finds organization life of tomorrow expressed best in the new suburbia because there it is concentrated most visibly. I found his explanation of a new kind of "rootlessness" among the suburbanites most illuminating. Because they all live more or less as transients, they have to find a certain kind of environment wherever they are moving to. Furthermore, class stratification is leading to movements among certain types of ready-made environment. As one of the studies quoted is making clear, "It now appeared that the American system was finally shaking down into a fixed order of things in which achievement was more and more closed to the lower classes." This, of course, leads to the necessity that the individual "should not cherish illusions that he was going up but instead adjust to the realities of a fairly static environment." The actual location and even the sets of friends become interchangeable. There are no roots in actual soil. The "new roots" are in the package suburbs as such. Despite the general acceptance of this new sociological foundation there are, of course, some grumblings, some of which have characteristic coinages such as "sorority house with kids" or "a Russia, only with money."

In explanation it is said that the great expansion of the middle class

Continued on p. 34

The reviewer, who maintains a practice near Creswell, Ore., was one of four architects selected by the Educational Facilities Laboratories Board, under the chairmanship of Dr. Walter Cocking, editor of the School Executive, to participate in a recent conference on school building research in New York City.

Symphony of color, form and shadow

Residence, Southern California

THORNTON LADD & ASSOCIATES
Architects

JOHN FIELD KELSEY
Project Architect

DONALD C. ARMOUR JR.
Contractor

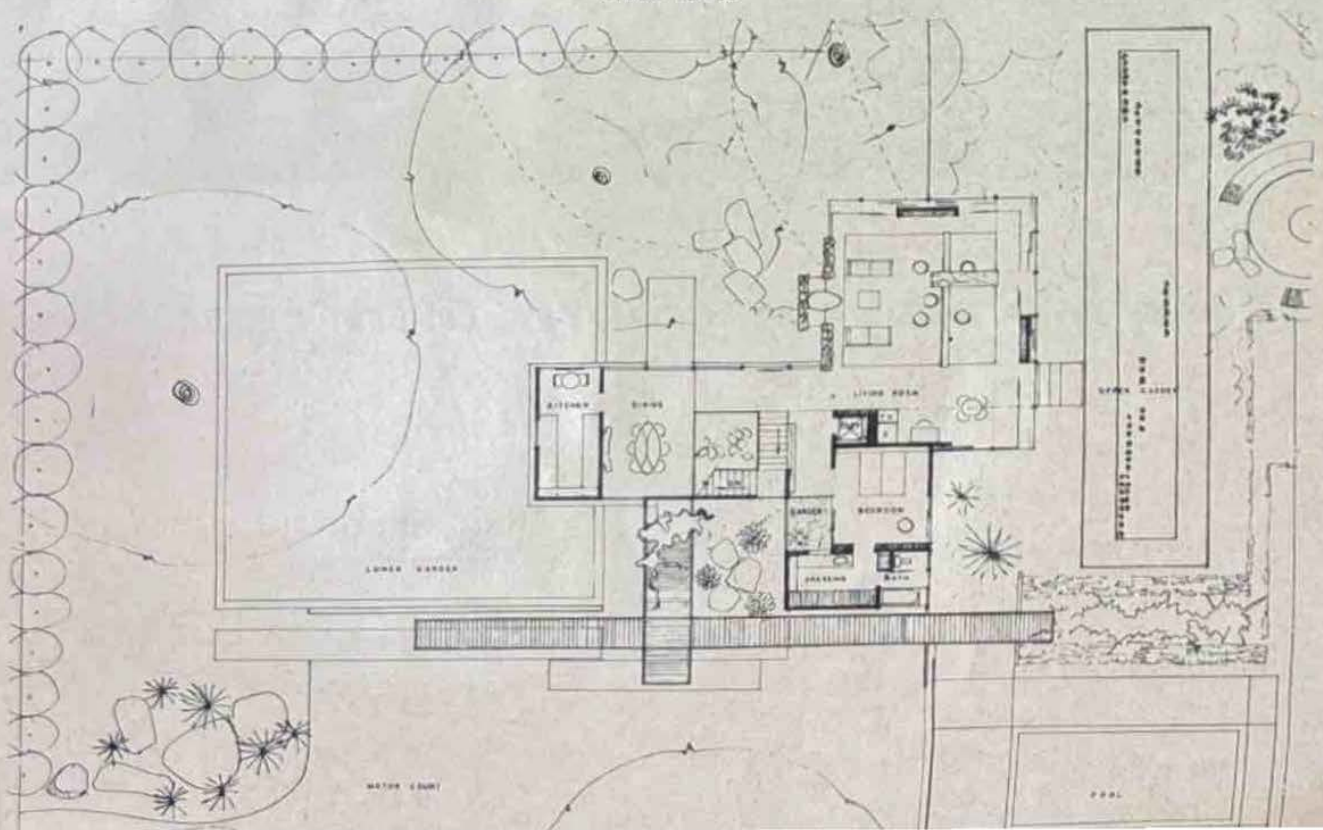
SOUTHERN CALIFORNIA RESIDENCE

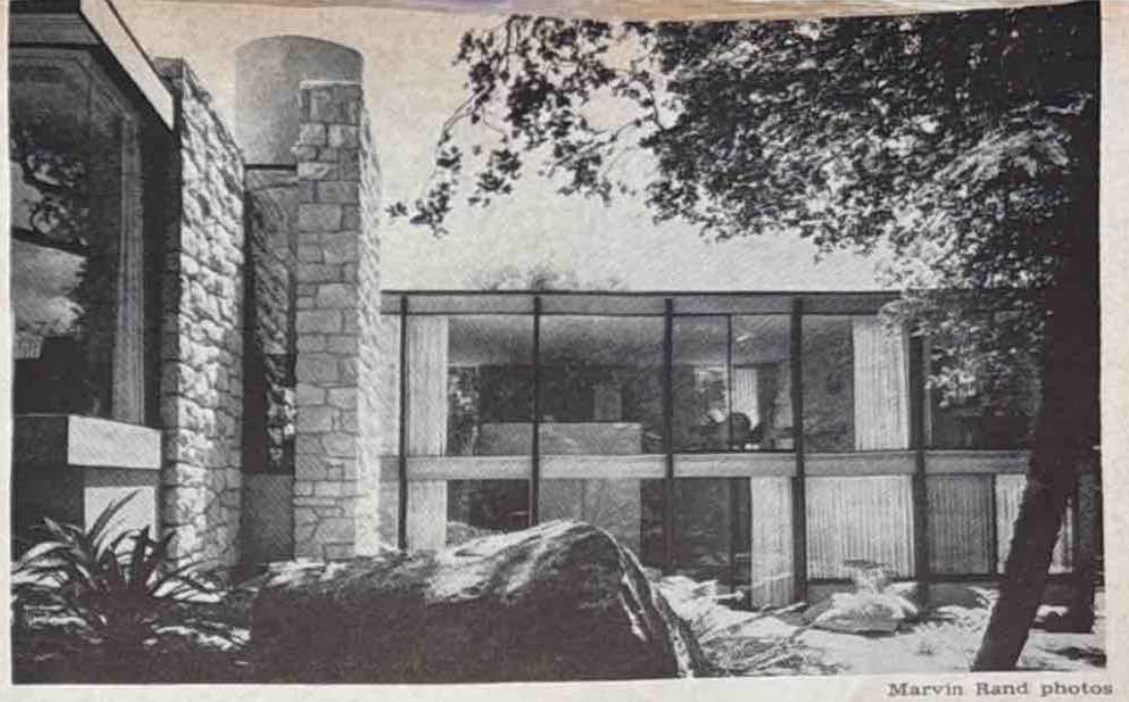
FUSION of indoor and outdoor space into a single environmental complex is evident throughout this spacious residence (3,818 sq. ft.) for a writer. The two-level scheme has guest quarters, secretary's area and main entrance through hand-carved Spanish Gothic doors on the lower level; kitchen, dining room, living-work area and master suite on the upper. Entry stairway leads up to a galleria of glass looking into giant oaks. Dining area is a part of this space, thereby giving added dimension.

The client desired desk and files (specially designed, along with other furnishings, by Paul Tuttle) centrally located so that he could do his daily work and still be a part of the hub of activity. This portion of the house is levitated above the private upper garden onto which the living area opens. Opposite wall of Santa Barbara stone has the fireplace expressed as a void with an oval chimney stack in the center. Natural light from a skylight above and full-length glass panels on either side combine to make a dramatic experience in form, light and shadow. Master bedroom, dressing room and bath suite open onto the upper garden, as well as onto a small enclosed area veiled by metal mesh and overlooking the entrance court.

Extensive landscaping by the architects incorporates a variety of plantings and devices, ranging from existing wistaria trained over the entrance trellis to Hawaiian tree ferns to native rocks. The lower garden lawn is retained by a crisp concrete form, with a wide, decomposed granite path around its periphery. Kentia palms serve as a privacy screen for the pool.

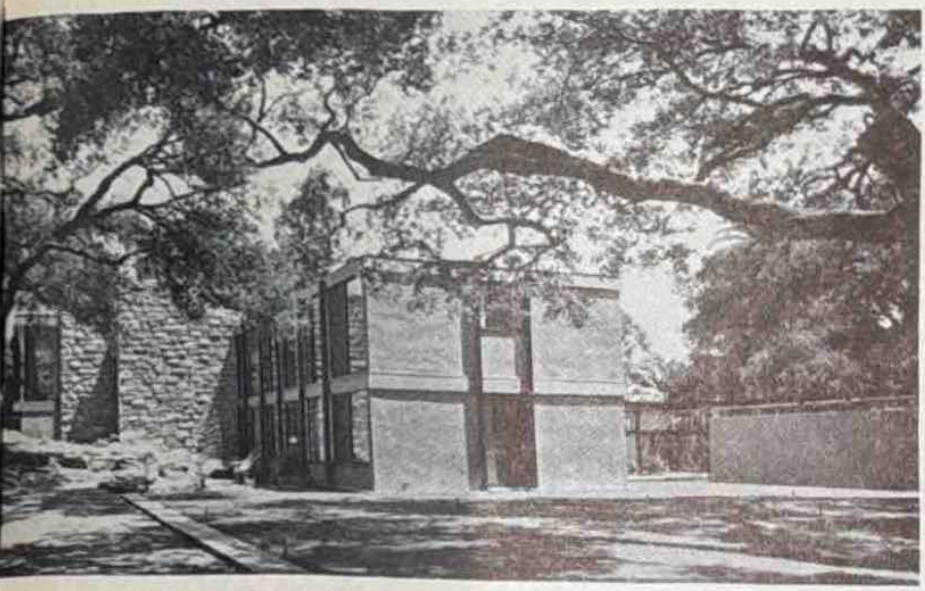
UPPER LEVEL





COLORFUL EXTERIOR has silver green plaster, purple-black steel columns, Santa Barbara stone quarried on site, natural finish redwood fascias, redwood and steel entrance trellis, light green terrazzo.

Marvin Rand photos



OUTLINE SPECIFICATIONS

Structure: foundation: concrete; frame: steel columns; roof: wood joists; floors: concrete (lower level) and wood joists.

Exterior Finish: painted plaster.

Roof Surfacing: gray rock over four-ply built-up — Owens-Corning Fiberglas Corp.

Windows: steel sliding—Bellevue Metal Products.

Doors: specially fabricated limba hardwood.

Floor Surfacing: terrazzo, pale green and white carpeting, pale green vinyl (kitchen and baths).

Insulation: 4-in. rock wool batts—Johns-Manville Corp.

Partitions: stud and plaster.

Interior Finish: painted plaster and limba hardwood paneling—United States Plywood Corp.

Ceilings: painted plaster.

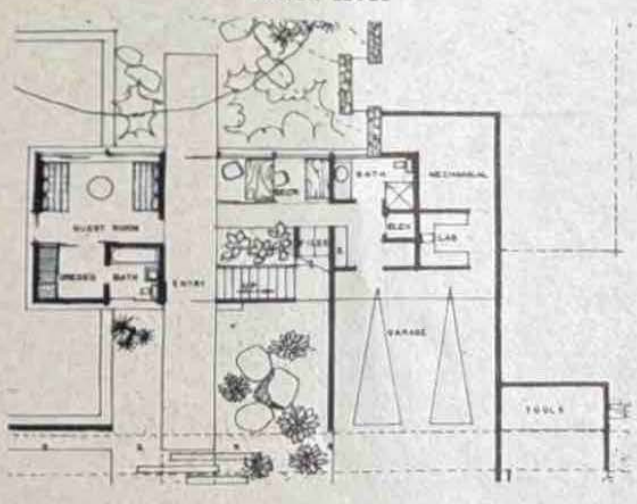
Lighting Fixtures: recessed—Marvin Electric Manufacturing Co.

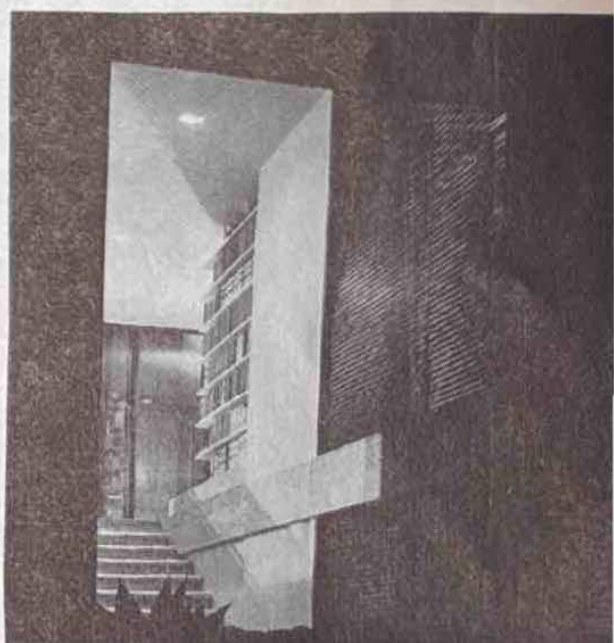
Heating: gas fired, forced air unit—Day & Night Division, Carrier Corp.

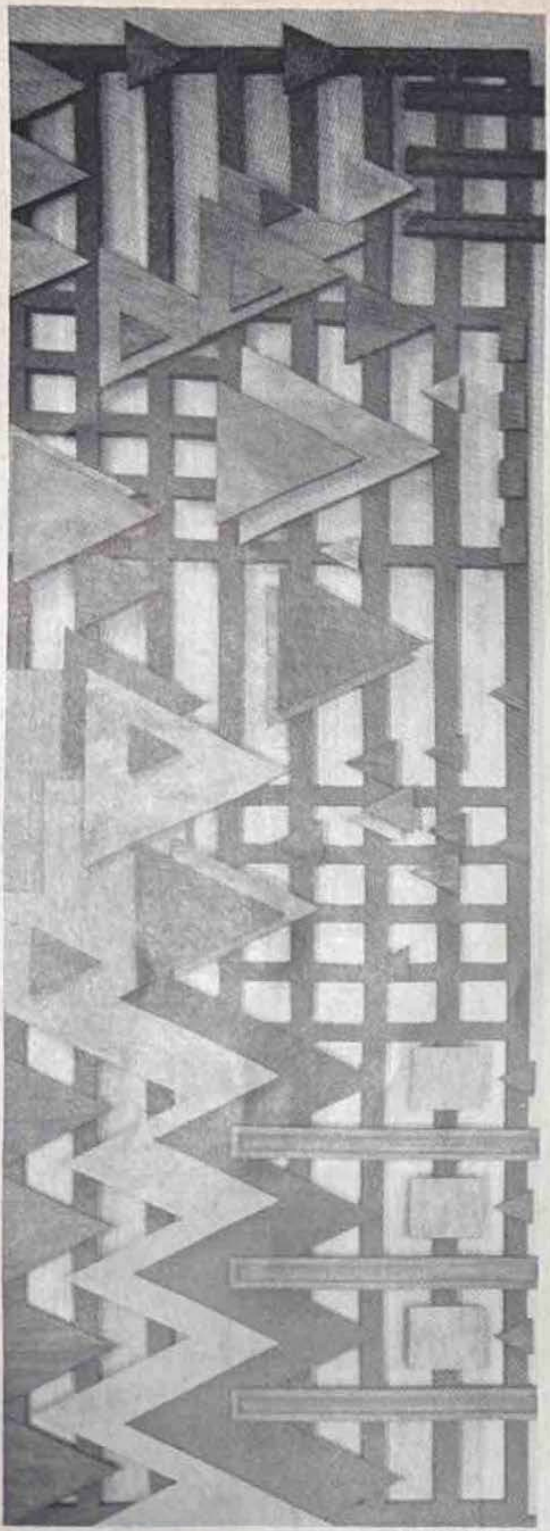
Total Area: 3,818 sq. ft.

Date of Completion: February 1957.

LOWER LEVEL







Alex Pierce

SCULPTURED WOOD GRILL by Phil Gilmore, architect. Fine Arts Theatre, George M. Schwarz, interior planning.

Photographs of the six pieces of art—all in Portland buildings unless otherwise noted—shown on these pages were part of an exhibition which hung at the Portland Art Museum this spring.

'The artist in architecture'

Excerpts from an article by Walter Gordon, AIA, of Portland, recipien of the first award from the Oregon Chapter, Artists Equity, for "outstand ing contribution toward the use of painting and sculpture in architecture" and newly appointed dean, School of Architecture and Allied Arts, Uni versity of Oregon*

ENCOURAGING SIGNS of greater opportunity for artists in the field of architectural commissions are becoming more apparent these days. If these indications are not very noticeable in Portland to the casual observer, still it is a fact that important work is being done here; and in the country as a whole there is no denying the evidence that is accumulating. It would be absurd, of course, to be overly optimistic about this phenomenon and to expect anything like a renaissance of of integrated arts and architecture tomorrow.

Tremendous obstacles to any "flowering of the arts" continue to exist. But the trend in contemporary architecture is unmistakably away from concern with purely architectural forms. Wherever possible, today's best architects try to include works especially designed by artists for specific architectural spaces. Sculpture and mural paintings are slowly reappearing in public buildings, churches and schools. Architectural periodicals are publishing commercial projects which show good use of murals, original lighting fixtures and more carefully considered signs and lettering. Modern houses call for the appropriate draperies, carpets, wallpaper, lamps and furniture.

During the past 50 years the tempo of change in modern architecture has been rapid. At first, as a reaction against Victorian gingerbread, pioneering architects deliberately excluded ornamentation and the artist who made it. There was a period of preoccupation with "pure" forms, engineering and a reexamination of new materials. Characteristic buildings in the international modern style of the 1920s and '30s, influenced by the cubist esthetic, had an impersonal, machine-art look. But in the '40s, after the war, one could observe an increasing awareness of a need for pattern and for the fantasy, animation and human touch that had been present in great architecture of the past.

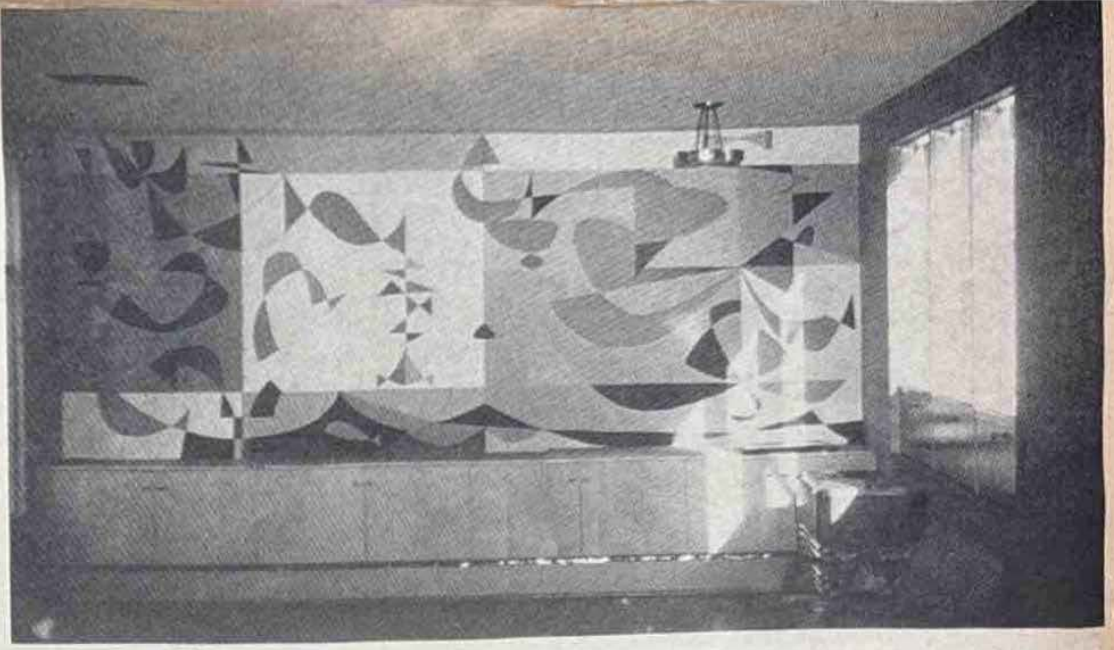
In addition there seemed to be a deeper understanding of the full meaning of functionalism and a realization that there are values in architecture beyond beautiful engineering and efficient mechanical function. It was seen that art forms in architecture have a positive functional value in conditioning the emotional climate of a design.

The architectural field then is comparatively open to artists, but the principal difficulty today lies in the economic dilemma that arises when an architect tries to include the artist in his designing project. It is perfectly obvious that the artist should be brought in at the inception of the design in order that architect and artist can work together on matters of form, scale, color and location. But in the general framework of high building costs, the average client is reluctant to allocate funds for art work until the physical necessities are paid for. In such an atmosphere of uncertainty, the artist must wait until the completion of a building, if indeed he has not already become a casualty in the process of elimination which so frequently takes place before construction is begun.

In this matter is seems to me that the architect must be recognized as being the key figure. It must first of all be his desire and intention to include the work of artists in the design. It is also up to him to persuade the client that the art work is essential. We can assume, with reason, that artists are ready to come out of their studios and to design for schools, churches, homes, for all types of projects in commercial and private buildings. A lot of technical problems are involved in such commissions, in addition to the financial ones, and the artist will have to struggle with client-contractor-architect relationships which are always complex. It is quite clear now that architects—convinced that the arts must be brought back to mutually advantageous relationship with architecture—have at least two tasks of the first importance. They must work out ways of cooperating with artists and they must educate the clients who pay the bills.

*"Art Reenters Architecture" appeared in the Oregon Artist for Winter 1954.

WOOD CARVING by Frederic Littman. Rickbeil Residence, Klamath Falls, Ore.; late Sheldon Brumbaugh, architect.



FAMILY ROOM MURAL by Rick Norwood. Nemer Residence; Walter Gordon, architect.

A statement by George Johanson, president of the Oregon Chapter, Artists Equity, and faculty member of the Museum Art School

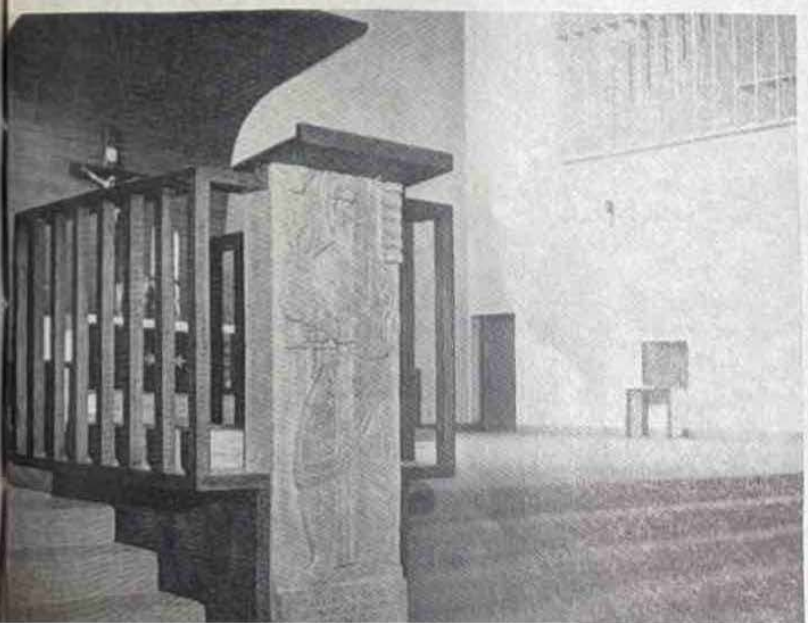
THERE HAS EXISTED generally a belief that the artist is concerned only with the traditional materials of the sculptor and easel painter. Actually the reverse of this is true. For many years the artist has been experimenting with new uses for materials such as mosaics, sand-cast sculpture, stained glass, welded metal and plastics.

It was the purpose of the exhibition, "The Artist in Architecture," at the Portland Art Museum to show how the artist can make use of these materials in decorative motifs in architecture. The artist has something to contribute that is highly suitable to modern buildings. Indeed, a work of art can accentuate the design of the building while adding a human warmth which those without art work often lack.

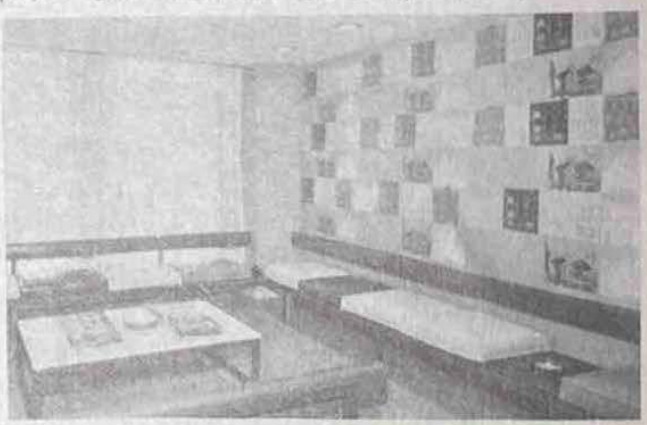
There is nothing new in the idea of an integration of art and architecture. Art began by being an integral part of architecture, and it is their present separation that is really new. Many architects and artists desire a new integration of the two arts. The architect must feel free to call in the artist to talk over the possibilities of the use of art in any building which he is designing. Most artists would welcome the opportunity of being consulted by the architect and even though a commission might not always result, a closer relationship and understanding of mutual problems would develop.

SCULPTURE FOR CARPORT by Lewis P. Crutcher (also architect) for his own home.

PULPIT WITH SCULPTURE OF ST. PAUL by Manuel Izquierdo (first commission). St. Phillip Neri Church; Belluschi and Skidmore, Owings & Merrill, architects.



WOOD BLOCK DESIGN, HAND PRINTED WALLPAPER of early Portland buildings by LaVerne Krause. Selling Building (employees' coffee shop); Skidmore, Owings & Merrill, architects.



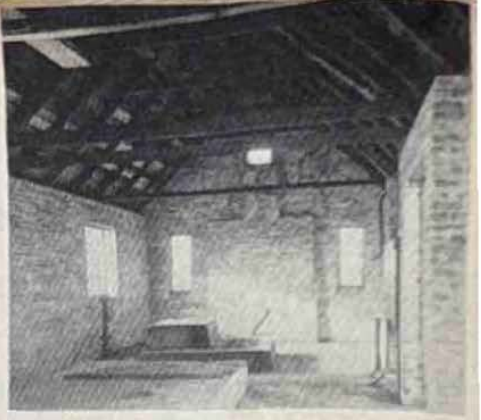
Peninsula Realty Co. Headquarters
San Mateo, California

GEORGE T. ROCKRISE
Architect

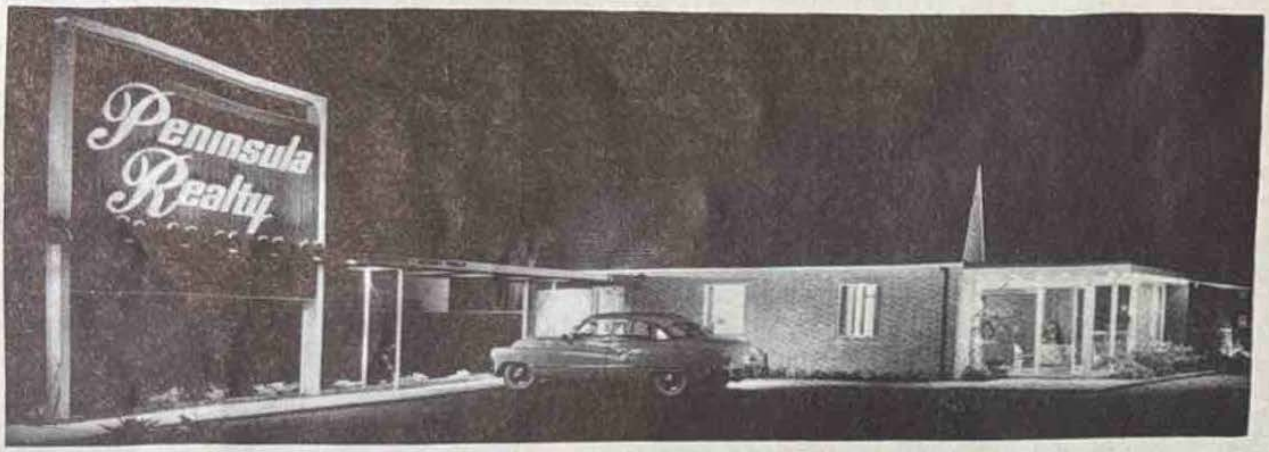
WALTER LANDOR & ASSOCIATES
Interior Design

LAWRENCE HALPRIN
Landscape Architect

HAYDEN G. PRICE
General Contractor



PICTURESQUE PUMPHOUSE, denuded of years-old ivy and sandblasted to warm, soft pink, stands parallel to highway, with flat roofed addition joining it at angle. Egg-crate lattice connects old portion with sign constructed of steel box frame and white three-dimensional letters on dark brown vertical slats.



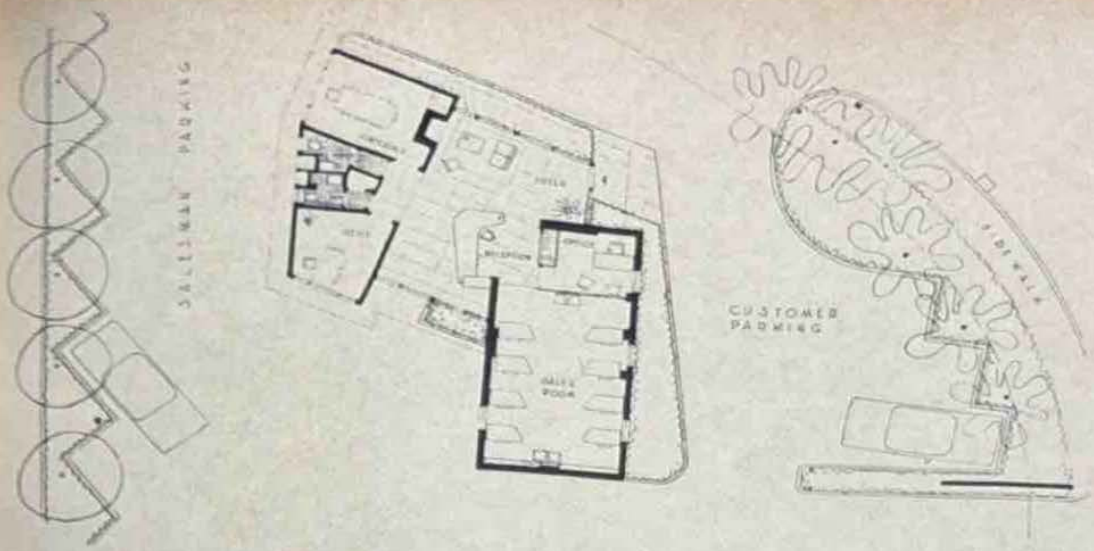
Pumphouse is dressed up to sell real estate

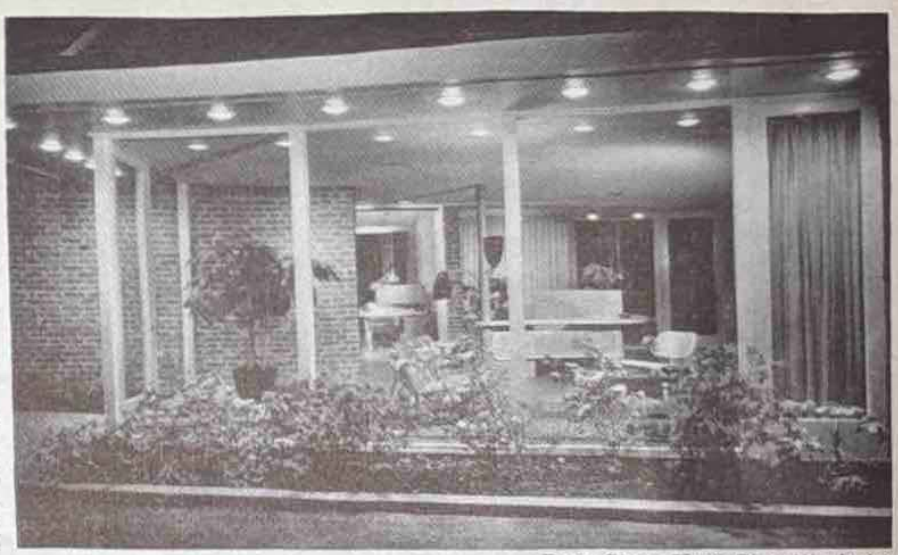
THE CLIENT, upon deciding to move out of inadequate quarters, turned to an adjacent corner lot occupied only by a pumphouse, a kind of landmark which once was part of a great peninsula estate. Resulting problem: how to retain the historical and pictorial values of the old structure and at the same time achieve an up-to-date office building to serve 13 employees.

It was decided to allow the pumphouse to remain essentially as it was and to incorporate a contemporary addition. To provide access from the old portion to the new, the architect knocked out an inner corner and replaced the support with a 4-in. column which, with two exposed brick walls, is an integral part of the design.

The landscape architect was brought into the planning from the very start to insure maximum use of the site for both building and parking, with a secondary consideration of hiding an unsightly structure and sign right next door. A zigzag board fence stained light brown delineates the parking spaces, three of which are in front. A long driveway which parallels the lot line leads directly to additional parking in the rear. For ease of upkeep, plantings are of permanent varieties, including ground cover of variegated ivy, junipers, Lombardy poplars and an existing apple tree.

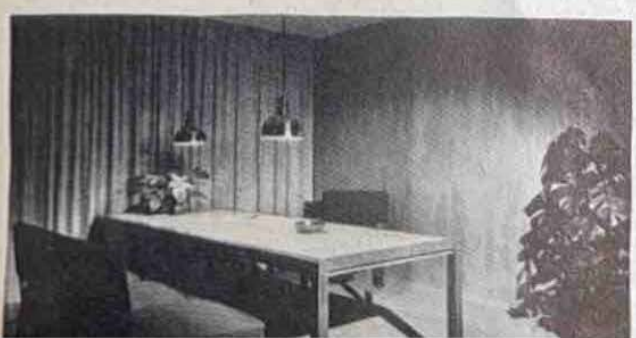
Located between the sales and executive offices, the receptionist's desk is the nerve center of the operation, housing a central listing in 26 drawers, letter size files and typewriter. From her desk she is able to face both entrances, customer lounge and all of the offices. Main salesroom, accommodating eight and an equal number of customers, and a small closing office occupy the space of the old pumphouse. The two long walls, ceilings, desk cabinets and curtains are in a gray-green color scheme; floor is of beige asphalt tile; half of the chairs are upholstered in beige plastic, half in coral. Vertical redwood siding stained a blackish brown conceals storage cupboards in the salesroom, closing office and lounge, as does similar paneling of elm, sycamore and cedar in the executive office.





Dean Stone-Hugo Stecatti photos

GLASS WALLS, each with door, provide access to customer lounge and unobstructed view across front. Home-like lounge has textured casement curtains, terra cotta floor scored in 2-ft. squares, and woven cotton and jute rug. fireplace bordered with black and gold glazed brick. Slab floor extends outside to form walks around exterior. Conference room features custom-made desk which, along with others, was designed by Whitney Atchley.



OUTLINE SPECIFICATIONS

Structure: foundation: reinforced concrete footings; frame: Douglas fir; roof: Douglas fir joists, t&g diagonal sheathing; floors: Douglas fir.

Exterior Finish: existing building: standard brick; addition: 1x8 t&g resawn redwood.

Roof Surfacing: built-up asbestos—Pabco Products, Inc.

Windows: clear sugar pine.

Doors: exterior: clear sugar pine; interior: vertical grain Douglas fir.

Floor Surfacing: asphalt tile—Kentile, Inc.

Partitions: wood stud.

Interior Finish: 1x8 t&g resawn redwood, ¼-in. plywood, brick, gypsum wallboard—(Sheetrock) United States Gypsum Co.

Ceilings: acoustical plaster.

Heating: horizontal forced air, gas fired furnace—(Biltwel) Fraser & Johnston Co.

Total Area: existing building: 384 sq. ft.; addition: 714 sq. ft.

MEMORIAL COURT at far right is created by new auditorium and two existing sections of high school. Granite shaft rising out of long, reflecting pool is inscribed with names of community's war dead. Traffic from school to auditorium moves through court.

Cooperative approach to community needs

Porterville Memorial Auditorium
Porterville, California

C. M. DEASY
ROBERT N. EDDY
Architects

WILLIAM T. WHEELER
Structural Engineer

Dr. VERNE KNUDSON
Acoustical Consultant

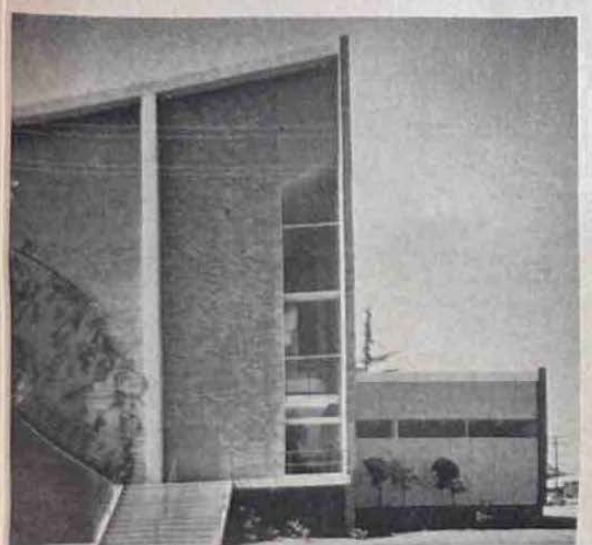
MAINO CONSTRUCTION CO.
General Contractor

FOLLOWING the 1952 earthquake in the San Joaquin Valley, Porterville High School found itself without an educational plant. A crash program took care of building temporary classrooms but left no money for replacing the auditorium. At the same time the Porterville Memorial District, committed to the construction of a community auditorium to honor its war dead, was looking in vain for a suitable site. The logical decision: meet the need jointly, with the school board supplying the land on a long-term lease and the Memorial District constructing a building which would be available for school activities.

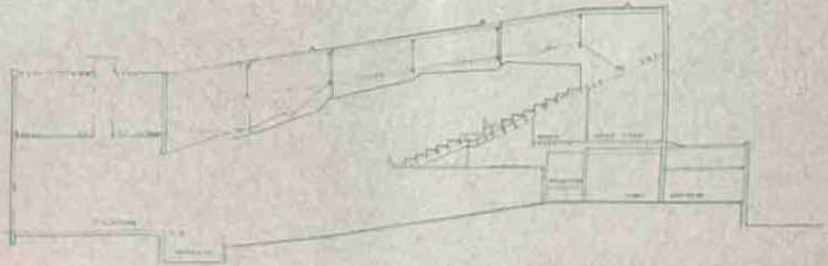
The 250x380-ft. leased site included two sections of the old high school building which were structurally sound and which, because of the desperate shortage of classroom space, had to be incorporated in some manner with the new auditorium. It was determined that there were adequate community facilities for banquets, dances and other group gatherings which demand a flat floor. The real need was for a 1,850-seating capacity auditorium to accommodate drama, concerts, lectures and public assemblies. Thus it was possible to work at optimum sight lines, floor slopes and acoustical conditions without the compromises which are inherent in a multipurpose building.

By establishing a maximum spectator to stage distance close enough to permit identifying facial expressions and using side aisle lines well within distortion limits, the division of seating into one-third balcony, two-thirds orchestra was determined. This resulted in an extremely high structure and the architects point out that a larger site permitting a deeper setback would have been more desirable. Since funds were lacking for a traditional high stage with fly loft, this area was planned to permit use of scene carts where quick changes are required. Stage shop, rehearsal rooms, dressing rooms and other operational requirements are housed in the old classroom wing which was remodeled for that purpose.

The structure is simply the minimum envelope which would enclose the necessary functions. Steel trusses are carried on exposed concrete columns with common brick filler walls between.

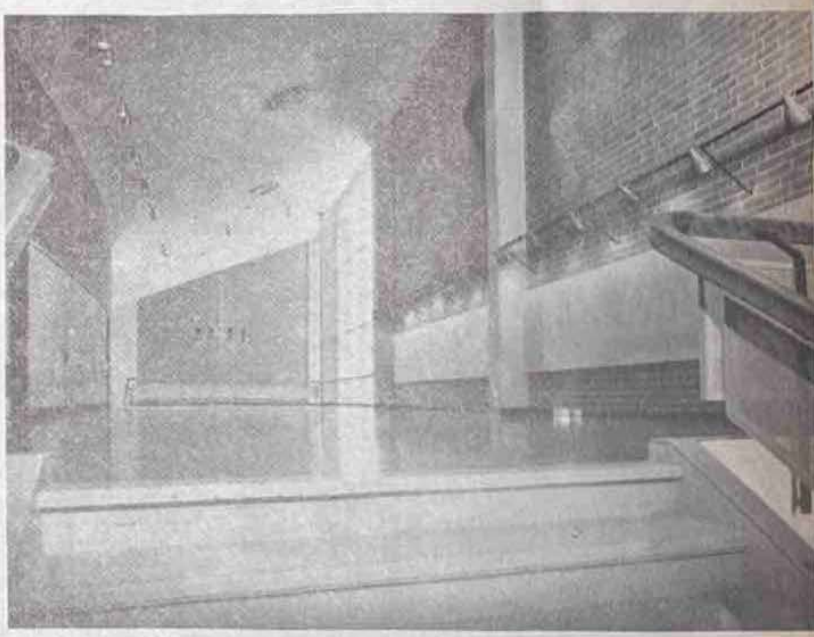


BUTTERFLY INVERTED ROOF tops building, nearly six stories high at facade.



Julius Shulman photos

ACOUSTICAL CONDITIONING consists of rear wall of glass fiber insulation surfaced with perforated cement-asbestos board; small areas on side walls covered with narrow hardwood strips to control echo in center seats; and horn shaped walls of proscenium. Broad upper lobby, besides functioning as conventional passageway and intermission-gathering spot, can be transformed into gallery for art exhibits, industrial and commercial mobile shows.



OUTLINE SPECIFICATIONS

Structure: foundation: concrete caissons—Permanente Cement Co.; frame: steel trusses on concrete columns—Permanente Cement Co.; walls: brick filler—Castaic Brick Co.; floors: concrete (orchestra) and wood.

Exterior Finish: exposed concrete columns and brick filler.

Roof Surfacing: built-up asbestos—Johns-Manville Corp.

Windows: aluminum frame—Kawneer Co.; plate glass—Libbey-Owens-Ford Glass Co.

Doors: exterior: aluminum frame—Kawneer Co.; plate glass—Libbey-Owens-Ford Co.; interior: plywood—(Weldwood Sta-Straite) United States Plywood Corp.

Floor Surfacing: asphalt tile—(Matico) Mastic Tile Corporation of America.

Insulation: acoustical: glass fiber surfaced with perforated cement-asbestos board—(Acousti-Celotex Corp.); thermal: mineral wool—United States Gypsum Co.

Partitions: metal stud and plaster.

Interior Finish: painted plaster.

Lighting Fixtures: incandescent—Century Lighting, Inc.

Heating: forced air unit heater—Trane Co.

Air Conditioning: water cooled unit—Trane Co.

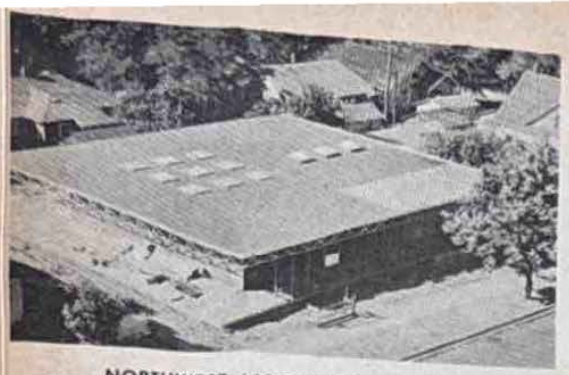
Plumbing and Sanitary: water closets and lavatories—American Standard.

Special Equipment: sound—Altec Lansing Corp.; seating—Heywood-Wakefield Co.

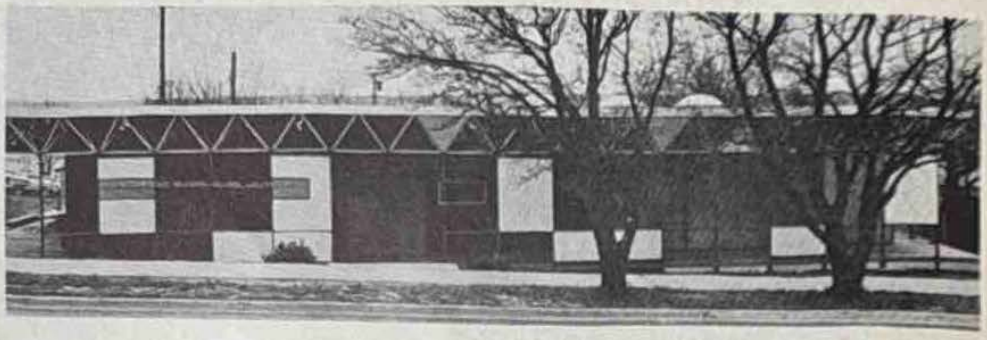
Total Area: about 50,000 sq. ft.

Total Cost: $722,000, including furnishings, landscaping, Memorial Court, remodeling of old school building.

Date of Completion: March 1957.



NORTHWEST LABORATORY, consisting of two classrooms situated on space-frame bolted steel platform, provides place where new ideas and materials can be tested by hard knocks of today's children. Section of roof is coated with recently developed neoprene compound rather than built-up layers of plies and asphalt.



Flexible framework for school research

CURRENT MAJOR PROJECT in the school building research program at the State College of Washington has had, in the words of its sponsors, "a successful shakedown cruise and is moving forward to the serious task of bringing the ultimate benefit to the region's future citizens." Known officially as the Washington State Regional School Laboratory, whose construction got underway on the Pullman campus a year ago last spring (PA&B for April '57), the project went into initial operation this summer with the holding of a demonstration class and a reading clinic.

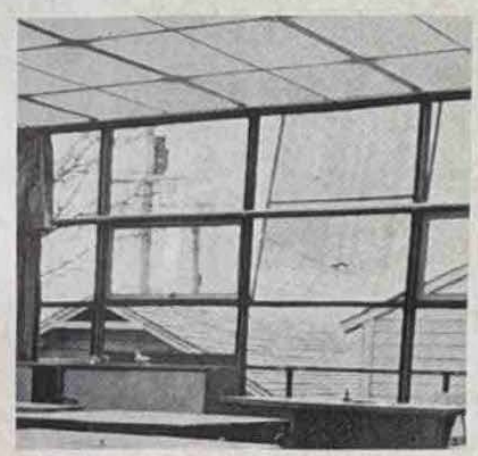
Basically the structure is a reasonably flexible framework which can be adopted to make use of various floor, wall, ceiling and roofing materials and which can be expanded or contracted in size with a minimum of effort and skilled labor. Designed by Robert P. Darlington, assistant professor in the department of architectural engineering who heads the program, it consists of a Unistrut bolted steel space-frame platform, about 80x70 ft., on which two 32-ft. square classrooms are situated. Other facilities: a teachers' lounge and workroom, two toilet rooms and a 16x80 ft. play porch.

In addition to changes in size of the overall building, the Unistrut system allows wall, floor and ceiling panels, windows and doors to be clipped in or out. Almost any environmental condition may be achieved, ranging from rooms with one or two walls completely glazed to totally windowless rooms, with or without skylights, of any size and proportions desired, with any combinations of materials and with a wide range of lighting systems. Regional products have been used as far as possible in the construction, with contributions from more than 60 manufacturers.

Here is a summary of the initial classroom experiments as explained by Darlington and his assistant, Orville G. Lee, junior research architect:

"The two classes conducted in the laboratory in the summer of 1958 are good examples of the possibilities inherent in the project. The two classrooms themselves are very different in character and design, which was taken into consideration in preparing for the demonstration classes scheduled for the building by the School of Education.

"The laboratory is entered from the north and both classrooms are oriented to the south. Classroom A, the east unit, is primarily a daylighted room. Classroom B, on the west, although it has twice as many windows, is electrically lighted. The south wall of A is all glass; the other three walls are solid. Overhead are nine 4-ft. square solar-selecting glass block Toplites by Kimble Glass. American Window Glass Lustagray in the windows controls sky glare. Both the windows and Toplites can be covered with audio-visual blinds. The Unistrut space-frame ceiling construction is exposed, with nine Smoot-Holman P-V luminaires hanging from the bottom plane which is 9½ ft. from the floor. These fixtures employ a total of 18 8-ft. high-output fluorescent tubes.



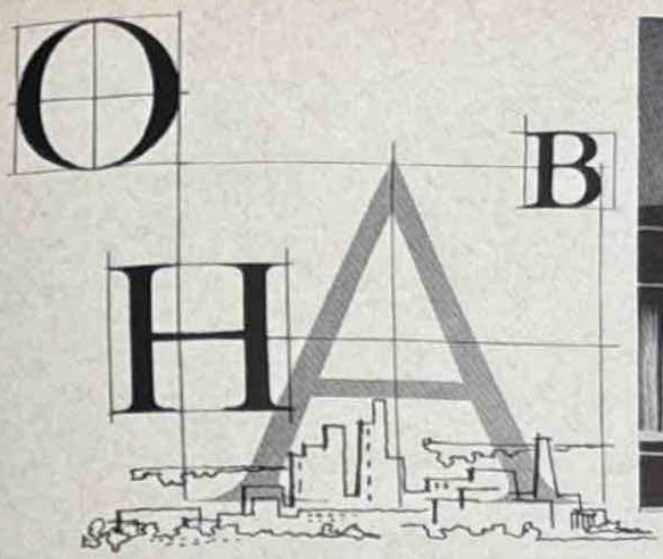
CLASSROOM B has south and west walls glazed in attempt to study ways of combating afternoon sun. Artificial lighting is in space-frame plenum above aluminum grid ceiling.

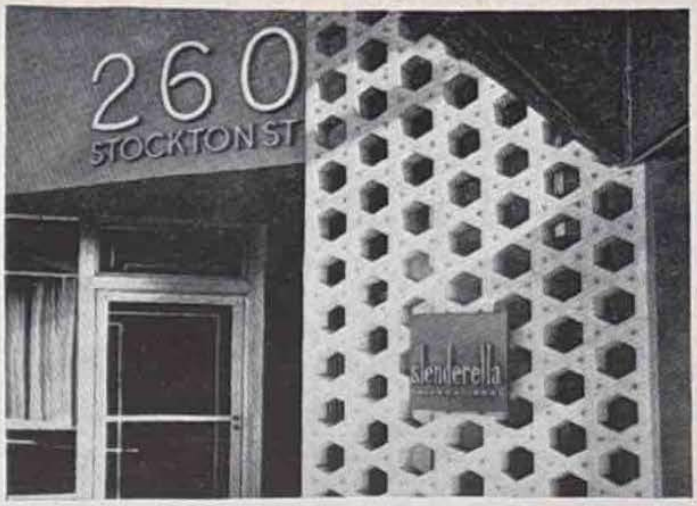
"Classroom B has its south and west walls glazed. This difficult condition was set up purposely to study ways of combating the afternoon sun. Houze Glass Lo-Tran, a 12½% transmission glass which cuts down sun glare, is used. The ceiling at the 9½-ft. level is Columbia Electric's new Koldbond aluminum grid, composed of ½-in. cubes. Electric lighting is in the space-frame plenum above. Directly beneath the roof deck are fastened 32 rows of fluorescent fixtures, 1 ft. o.c., each row containing eight 4-ft., 40-watt tubes for a total of 256.

"The lights are controlled by eight switches, each operating every eighth row. Alternate rows are cool and warm lights. This arrangement permits a wide range of lighting levels to be studied. The aluminum grid ceiling prevents direct view of the lights, creates a glare-free lighting condition throughout the room and gives a completely different visual character from that in Classroom A. It is difficult to imagine two identically shaped rooms with a greater difference of character.

"In the early stages of planning for the summer classes, A was to to contain an eighth grade demonstration

Continued on p. 22





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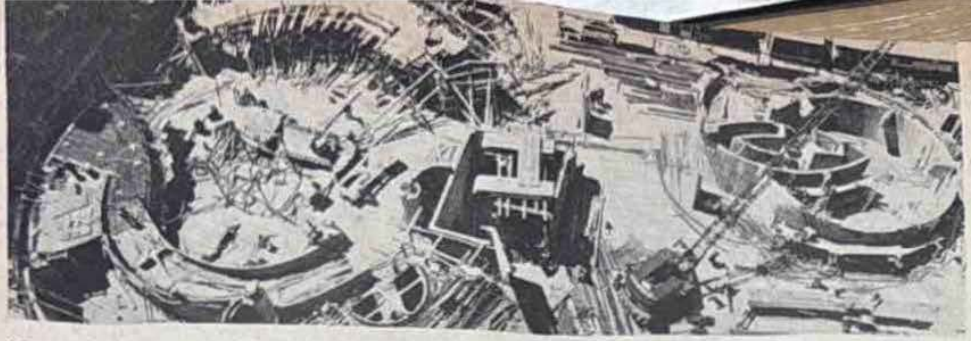


IRREGULAR SHAPED BUILDING has no expansion joints. Usual hot weather concreting problems of cold joints, loss of slump, honeycombing were overcome by addition of retarding densifier.

Concreting Wright's museum

SPIRALING UPWARD one level each month, Frank Lloyd Wright's $3 million Solomon R. Guggenheim Museum facing New York City's Central Park required casting of concrete in irregular forms because of its many curved surfaces. The two-wing building has ramps, domes, cantilevers, tapered columns and other unusual shapes for its main structural elements.

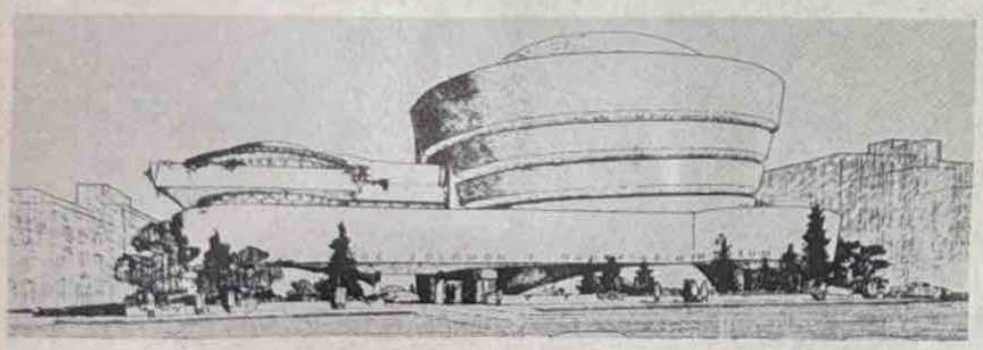
Superior and crack-free concrete was essential to the construction of the museum, slated for completion this year. Much of the structure above ground level was placed during the hot summer of 1957. To achieve high-strength, dense and smooth concrete, Euclid Contracting Co. added a retarding densifier (Sika Chemical Corp.'s Plastiment) at its own expense.

Architectural features such as curved wrought iron doors and windows which fit directly against the concrete frame called for almost perfect accuracy in laying out the framework. Engineers worked side by side with the carpenters. Only about one-third of the 4x8-ft. plywood panels were used full size for the framework. The rest had to be cut into smaller pieces. Because there are few straight lines, masonite as thin as ¼" was used for small radii surfaces and plywood for other curved portions.

During hot summer temperatures the increased proportions of the admixture (3,500 psi. lightweight concrete with a 3- to 4-in. slump) kept shrinkage to a minimum. In hot weather, concrete usually sets within one to two hours and almost immediately at 90-deg. temperatures. Ease of placement was especially important in sections such as the cantilever room on the south wing's second floor level. Here the mix had to be worked between the multilayered reinforcement. The plasticizing densifier (14 oz. per cubic yard during hot weather) kept the concrete from hardening long enough for it to be vibrated into place. The building is designed without any expansion joints so that it will expand and contract as a unit—unusual for a concrete structure this size.

Each day's concreting varied from 40 to 200 cu. yd. The circular wings were placed one level at a time. For each ramp level, an average of three separate concreting operations were required and 10 additional ones for the 11-ft. high interior wall. Ramp formwork was supported directly on the level below. The 5-in. exterior wall, which rests on a slab connected to the ramp, was gunited on the interior against curved plywood forms.

The concrete exterior will be painted.



TWO CIRCULAR TOWERS rise at museum's north and south ends from 201x128-ft. rectangular first floor. Each of south exhibition space's six levels is connected by ramp which corkscrews upward, broadening from 16 to 36 ft. Glass dome in roof lights main gallery on first floor. Cantilevering outward from ramp of wing's second level is circular room. Administrative offices are housed in three-level north wing, similar in shape but smaller than south unit.

Laboratory (Continued from p. 20)

class and B a third grade class. Furniture and equipment for these classes were obtained. Ultimately A wound up with a seventh grade class and B with a reading clinic. The school laboratory staff soon learned to look on developments such as these as evidence of the building's ability to adapt to changing conditions and as chances to study the effects on classes of operating in an environment not specifically designed for them.

"The reading clinic, for example, with only four to six students attending at a time, was held in the room designed for a third grade class. Pupils were from second grade through high school. Publication of a study of this situation is scheduled for fall or winter of 1958. Dr. Ester Mack of the School of Education, in charge of the reading clinic, had few early reservations about the feasibility of the classroom for her purposes. The school laboratory staff, however, worked with Dr. Mack to develop the best possible environment for her class."

A 31-page booklet describing the laboratory in detail can be obtained by requesting Bulletin No. 243 from the Washington State Institute of Technology, State College of Washington, Pullman.

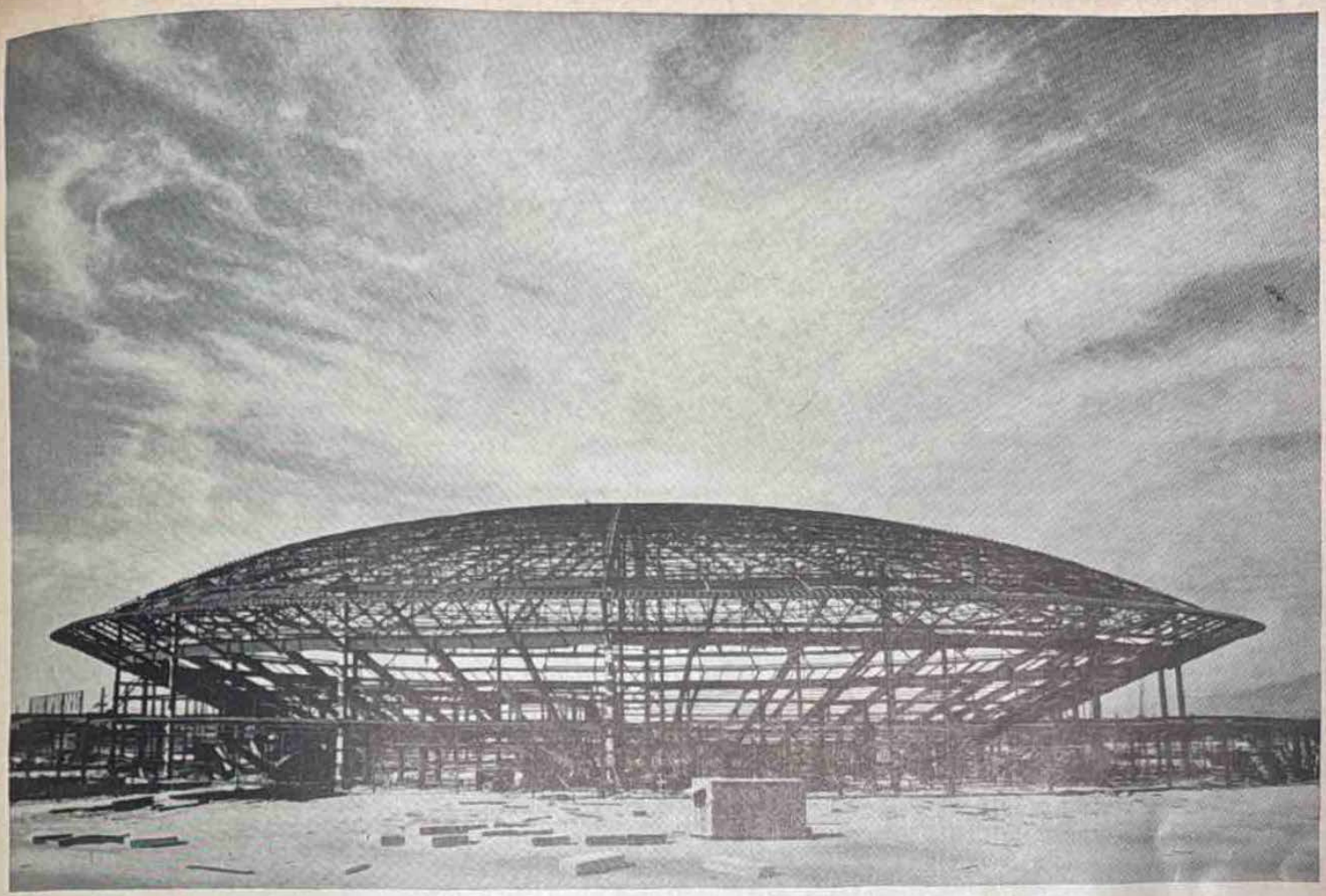
Following the summer session, two more modules along the east wall were enclosed to house the proposed School Planning Research Center, a library of materials including books, articles, films, slides, photographs, plans and other references.

Four West Coast cities have fast rust rate

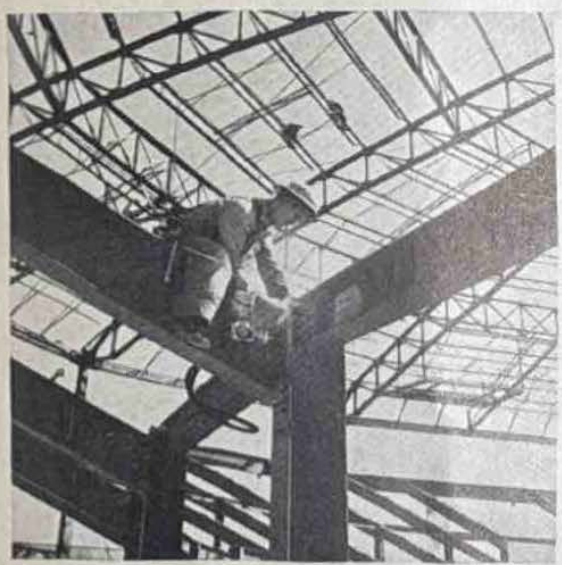
An index of comparative rates at which rust proceeds for all U.S. cities over 10,000 population lists four on the West Coast among the top 50. They are, with the rate expressed in years and months: Los Angeles, 3.02; Portland, 3.04; Seattle, 3.05; and Bellingham, Wash., 3.06.

It takes three years, the fastest rate in the country, for rust to corrode a standard, uncoated steel test panel, the size of an auto license plate, in four different cities—Buffalo and Rochester; Erie, Pa.; and Miami. Slowest rust rate, more than 15 years, is in Tucson, Ariz., and Roswell and Santa Fe, N.M. In all the nation's major industrial centers the rate is under four years.

The index, the result of a 25-year research program conducted by Rust-Oleum Corp., covers 523 cities.



It's big and it's bolted



Bolting goes fast—an iron worker uses an impact wrench to draw up Bethlehem Pacific High-Strength Bolts. They save time, make tighter joints than rivets. The nearest Bethlehem Pacific sales office can give you full facts and figures about high-strength bolting.

This is the steelwork for the Convention Center, a spectacular structure that will enable Las Vegas to accommodate the largest gatherings. The dramatic dome, 316 ft in diameter and rising 80 ft, spans a column-free auditorium seating 9500. There will be 22 meeting rooms and exhibit spaces totalling over two acres. The entire 300,000-sq-ft area will be air-conditioned.

COMPLETED 48 DAYS AHEAD OF SCHEDULE

The complex job of fabrication and erection of the 1700 tons of structural steel was completed 48 days ahead of schedule. Credit goes to the fabricator's efficient work, and to the use of high-strength bolts in steel erection.

Chief components of the steelwork (fabricated mostly from Bethlehem Pacific shapes) are sixteen 9-ton roof trusses radiating like spokes from the "hub"—a 13-ton compression ring 20 ft in diameter. Bethlehem 14-in. H-columns support the roof and the sloped seating structures.

The $4.5 million Center is scheduled for completion early in 1959.

Architect: Adrian Wilson and Associates; *consulting architect:* Harry Hayden Whitely; *general contractor:* Lembke Construction Company of Nevada, Inc.; *fabricator:* Vinnell Steel; *erector:* Taylor Steel.

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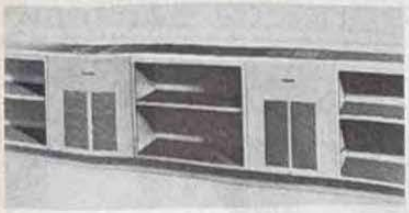


parallel functions of heating and ventilating. One warms and recirculates inside air as controlled by room or zone thermostat; the other draws in outside air continuously as determined by code requirements and warms it depending upon the inside-outside temperature differential. Units offer interchangeable cast aluminum grids with capacities up to 6,000 watts. Matching shelving and a wireway base are provided for continuous below-sill level installations in a variety of classroom colors.—Electromode, Division of Commercial Controls Corp.

(Item No. 1)

Snap-on thermal insulation

Ideal for refrigeration work and low-pressure steam lines, Urethane is a snap-on thermal insulation with a low K-factor. It does not fray, crumble or break in handling; neither does it disintegrate when subjected to water or many other liquids. Preformed to fit pipelines and fittings, its outside diameter is such that it will nest correctly with a second layer in case heavier thicknesses of insulation are desired. Dual-layer procedure also permits staggering of joints to reduce heat loss to a minimum.—National Aniline Division, Allied Chemical Corp.

(Item No. 2)

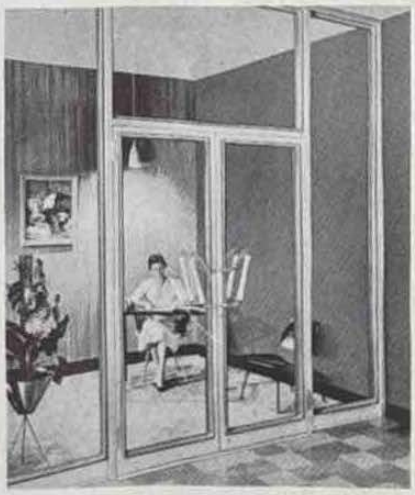
Shower panels

Actual foliage and seal life are embedded in decorative fiberglass panels created by Cardenas for shower doors and tub enclosures. Panels are about ⅛-in. thick and weigh 16 oz. per square foot, making them easy to handle and operate. Patterns set against natural translucent backgrounds are called Marine Life, Nature, Abstract Fishes and Autumn Leaves. — Evergreen States Forest Products.

(Item No. 3)

Colorful store fronts

The entire building facade can now be constructed or remodeled in porcelain color with Kawneer's ColorWare.



Hardware, door glass stops and frame glass stops come in four harmonizing colors—teal, sunlight yellow, black and sunset red. Porcelain finish fused on the aluminum products gives a completely permanent and maintenance-free color application.—Kawneer Co.

(Item No. 4)

Lavatory-dressing table

For hotel, motel, tourist court and restaurant construction, the Ledgend combines a dressing table and lavatory in a single unit of vitreous china. Completely free of joints, the unobstructed slab gives generous storage space for toilet articles. The unit is equipped with all-brass fittings; can be furnished with a three-water fitting for either hot, cold or ice water; is available with the dressing table on either side and in white or seven colors. A Welland closet can be installed under the lavatory to serve as a dressing table seat.—Kohler Co.

(Item No. 5)

Brightness control glass

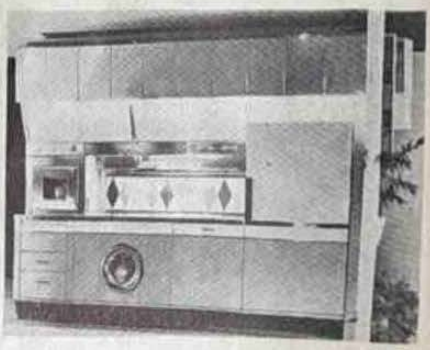
A gray sheet glass substantially reduces the need for supplementary light control measures from blinds, hoods, louvers or other shading devices. Known as Pennvernon Graylite, it is produced in two thicknesses: ⅛ in., providing visible light transmittance of 31%; and 7/32 in., providing 13%. It can be used in ribbon windows and ventilator units in conjunction with light-directing glass block installations.—Pittsburgh Plate Glass Co.

(Item No. 6)

Gas appliance wall

An all-gas Multimatic Wall is a one-piece unit combining five basic household functions: cooking, refrigeration, laundering, hot water heating and house heating. The furnace is readily adaptable to gas air conditioning. The wall, 8 ft. high, 10 ft. long and 33 in. deep, can be used to replace one interior partition. Self-contained automatic venting through the side of the house eliminates need for construction of a chimney. Designed by Walter Dorwin Teague Associates, the unit can be purchased fully assembled.—American Gas Association.

(Item No. 7)



More products on p. 26

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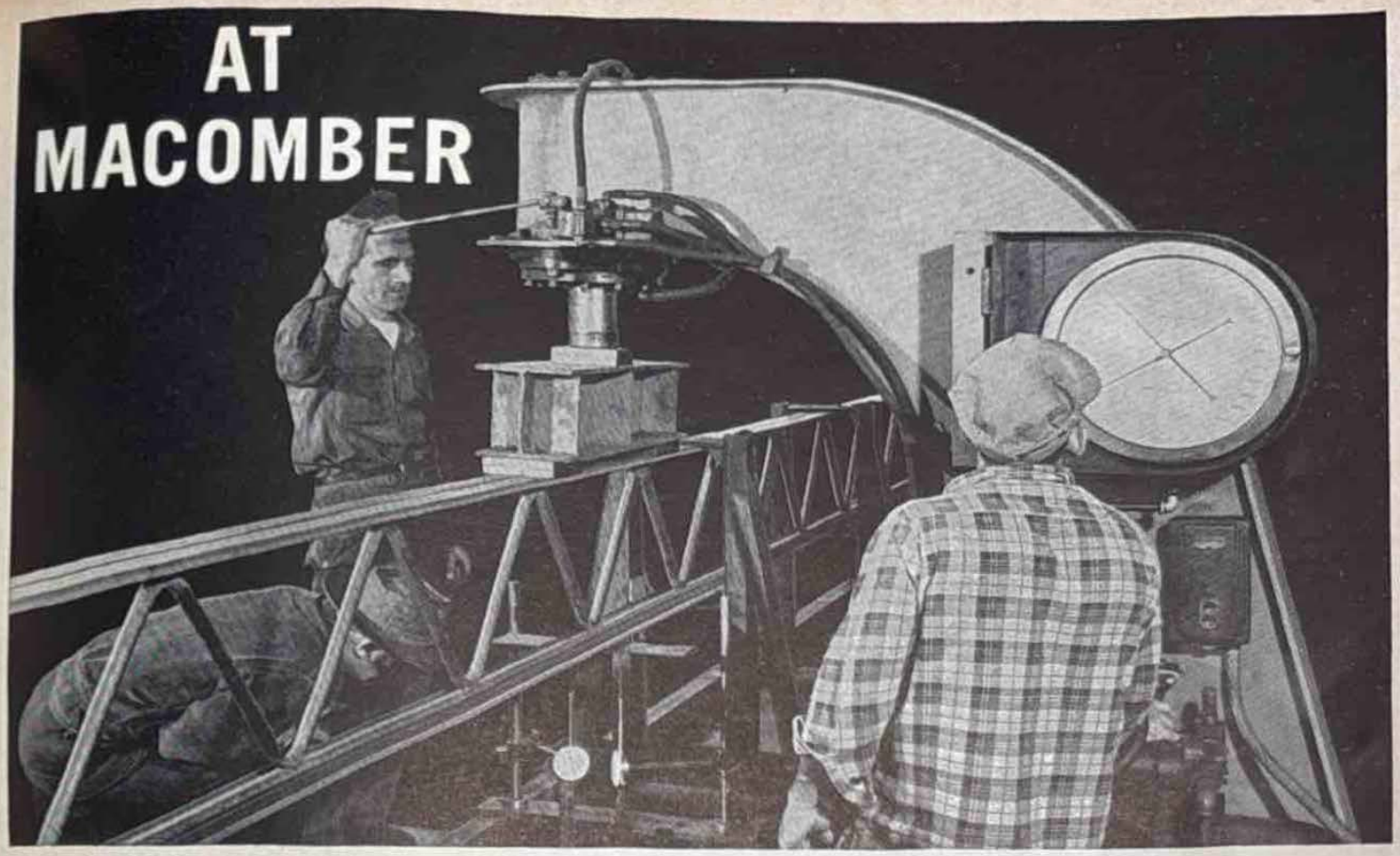

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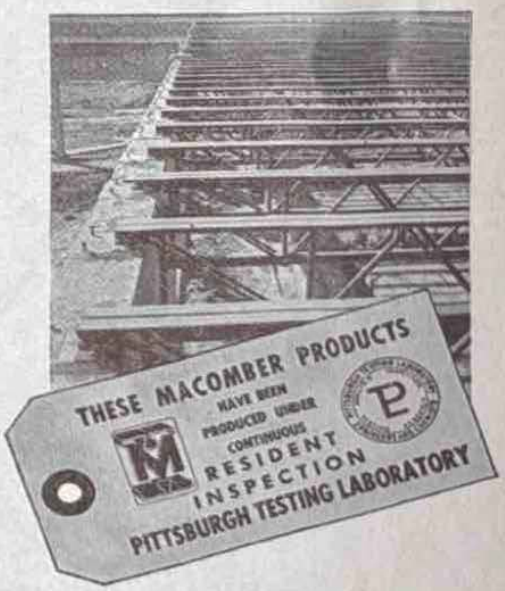
Specific catalogs are available on all Macomber products.



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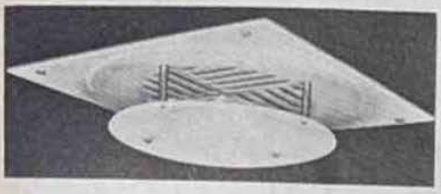
Fiberglass speaker baffles

Highlight of a series of fiberglass architectural speaker baffles is the Spiral-Jector for 8-in. speakers. Sound



dispersed by the diffusion plate gives an overall feeling of "presence" so that it seems to fill the entire area in which the speakers are located. Baffles have a two-tone finish with desert sand faceplates and milk white diffusers.—Fourjay Industries.

(Item No. 8)

'Packaged' offices

Ready-to-use "packaged" offices, completely equipped with wall components and furniture built to the same module, incorporate Hauserman's movable steel and glass partitions and Remington Rand's Aristocrat furniture line. The latter includes desks with end panels, tables, credenzas, tops, file and storage cabinets. Divider wall system, available in a variety of color combinations compatible with the furniture, allows creation of semi-private offices which can be easily altered as space requirements change. —E. F. Hauserman Co. (Item No. 9)

Low-cost storage units

Stratapanel, a combination of modular drawers and slide panels molded of high-impact styrene plastic, eliminates the inner frame and center-slide case construction of ordinary storage units. Key to the system's simplicity and versatility is the development of the slide panel, a thin strong sheet of plastic with all the slides for a 24-in.

high case deformed into its surface. Attached to vertical sides of any firm material such as wood, concrete, plasterboard, etc., with a contact adhesive supplied by the manufacturer, the storage unit is complete with the insertion of the drawers. The latter are available in a standard depth of 17⅛ in., in heights of 3 and 6 in., in five widths from 16 7/16 to 46 7/16 in. Standard color is beige and drawers are supplied with or without fronts of walnut or birch.—Molded Structures Division, Robert A. Schless & Co., Inc. (Item No. 10)

Shower door handles

Bathrooms are becoming more elegant every day and to keep pace with the times, an inlaid mosaic tile handle has been designed for shower door and tub enclosures. It may be finished in gold, silver, black, polished or satin. If desired, colorful plastic centers may be substituted for the tile. —American Shower Door Co.

(Item No. 11)

LITERATURE

Readers are requested to write directly to manufacturers for the following literature.

1958 Form Engineering by Williams: shows latest engineering products and methods of concrete forming devices for both light and heavy construction; has tab indexes for easy reference; 68 pp. — Williams Form Engineering Corp., 1501 Madison Ave. S.E., Grand Rapids 7, Mich.

How Architects Met Client's Special Needs (AIA 14-1). describes special requirements for a small business office designed by Kitchen & Hunt and George T. Rockrise, associated architect, of San Francisco; shows details, elevations, floor plans; 6 pp.—Armco Drainage and Metal Products, Inc., Middletown, Ohio.

Thermal Chart of Insulations: helps select at a glance the insulation required to meet any one or more of 112 different U-, C- and R-factors; assembles 75 thicknesses and types of non-metallic and multiple aluminum air-space insulations; single sheet.—Infra Insulation Inc., 525 Broadway, New York 12, N.Y.

Take a Peek Into Tomorrow with Hewitt-Robins: describes three types of passenger conveyors—carrier bed (Glide Ride), slider bed and roller bed—with specifications and sc matic drawings for each; 8 pp.—He itt-Robins, Inc., 666 Glenbrook Ro Stamford, Conn.

Lightweight Aggregate Concrete: f tures 13 construction projects cov ing use of lightweight concrete structural material for column beams and floor slabs, in multisto structures, thin shell concrete a bridge decks; 20 pp.—The Mast Builders Co., 7016 Euclid Ave., Clev land 3, Ohio.

Elegance for Moderns in the Use Byzantile (AIA 23-A): beautifully il lustrated in full color, it shows sev eral design patterns, number of actua installations and gives physical de tails of size, shape and color of in dividual tiles; 24 pp.—The Mosaic Til Co., Zanesville, Ohio.

Questions and Answers about Insulrock Slabs: describes fireproof product used for combination roof decks and ceilings, floor slabs, structural insulation, interior sheathing, stucco base, interior plaster base and as acoustical material; 3 pp.—Insulrock Co., Division of The Flintkote Co., East Rutherford, N.J.

Food Waste Removal System: package of literature describing redesigned Waste King commercial garbage disposer line includes 4-page brochure outlining benefits to specifiers, 8-page folder listing overall features and complete set of specification sheets.— Waste King Corp., 3300 E. 50th St., Los Angeles, Calif.

The Modern Stone Age is Here (AIA 22-83): depicts every type of quarried stone in natural color; reviews use of stone through the ages, closing with 22x32-in. panorama of the City of the Future; 16 pp.—Building Stone Institute, 420 Lexington Ave., New York 17, N.Y.

NuTone Electrical Built-ins for Homes: reference folder with architects' specifications for hood fans, exhaust fans, food centers, ceiling heaters, intercom radio music system, door chimes.—NuTone, Inc., Madison and Red Bank Roads, Cincinnati 27, Ohio.

Plumbing Layouts That Save Materials, Time and Money: details dozen designs for single, one-and-a-half and double bathrooms in conventional and slab constructions, located side by side, back to back, over and under; 8 pp.—Ingersoll-Humphryes Division, Borg-Warner Corp., Mansfield, Ohio.

LETTERS

A reply to Mr. Tabler

Pacific Architect and Builder:

I have read with considerable interest an article appearing in your July issue entitled "Chaotic Building Codes" by William B. Tabler.

As I read the article I wondered whether the writer had a "pet peeve" over some local incident or whether he was speaking for the construction industry as a whole. He tells of having trouble getting a hotel room at the desk, even though he has designed some hotels. I fail to see the special privilege that the writer thinks he should be entitled to because of the fact that he has designed hotels.

I, too, am in the construction business but I don't have any such special privileges. Also, by the greatest stretch of the imagination, what does this have to do with the uniformity or standardization of a building code?

Further on in the article he speaks of labor disputes and union jurisdiction. Again I ask, what have union jurisdictional disputes to do with building codes?

A lot has been said about building codes and the effect of restrictive codes on building costs. A great deal of this criticism is based on politics and is brought to light purely for political purposes. Other criticisms of building codes are made by the professional people themselves because of the fact that they want a free hand at design, without regard to public safety. All too often a building code is referred to as being restrictive to a degree that buildings costs are materially increased. In my study of this subject, I fail to find the statement to be an actual fact.

However, there is marked room for uniformity and improvements in many of the construction codes. If we ever expect to accomplish this, we must look back to the basic reasons for writing a code. The purpose of any code is to set forth minimum requirements of construction to guarantee a certain degree of protection to the public regarding health, safety and general welfare.

There are several national organizations which sponsor national building codes. All of these codes are based on national standards and practices. These various organizations are ready, willing and able to help on this question. Each of these organizations have code changes committees who meet periodically to study and recommend revisions.

It is my recommendation that in the interest of national uniformity of building codes and standards, all the various organizations of the construction industry affiliate themselves with one of the national groups.

We in the Seattle Building Department have a Class A membership in the International Conference of Building Officials. This organization publishes the Uniform Building Code and several other books on building and building standards. There are over 800 cities, towns counties and states that belong to this organization.

Many cities either adopt these national codes and amend them to suit local conditions or write a new code using the uniform code as a guide or format.

Some cities are reluctant to spend the time and money required to write a modern up-to-date code, either because of lack of funds or because of lack of interest or understanding of the problem by city officials.

Any resistance to adopting one of the national codes or basing a local code on national standards can be overcome by establishing a Citizens' Advisory Board composed of people from all phases of the construction industry. We have such advisory groups here in Seattle. They consist

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of the Electrical Review Board, Building Code Advisory Board, Plumbing Code Advisory Board and Fire Prevention Code Advisory Board. These boards are composed of people very much concerned with code requirements and the effect on the construction industry.

The Building Code Advisory Board is composed of a mortgage banker, a structural engineer, an architect, a labor representative, a building materials supplier, a city councilman, the superintendent of buildings and a member from each of the following: Chamber of Commerce, Puget Sound Engineering Council, Apartment Owners Association, Home Builders Association, Building Owners and Managers Association, Associated General Contractors and the Fire Department.

It is my opinion that the unfounded and unjust criticisms will cease by having a code drawn up following the pattern and standards set forth in the national codes, by having such a code written with the advice and support of a Citizens' Advisory Board, and by participation and affiliation with a national building organization.

FRED B. McCOY
Superintendent of Buildings
City of Seattle

Plug for Aspen

Pacific Architect and Builder:

The Aspen conference (Aug. '58) is always a wonderful experience for those who are fortunate enough to be able to attend. The board of directors is working out ways and means now of expanding the organization to provide more contact of this sort on a regional basis. Your interest in publishing the report on the conference should help a lot toward getting people interested in the sessions, not only on the basis of supporting it, but also for what it would mean to them.

EDWARD A. WILLIAMS
Landscape Architect
Eckbo, Dean & Williams
San Francisco, Calif.

Case study of a church

Pacific Architect and Builder:

I have read Bob Durham's article (May '58) with a great deal of interest. His experiences, including the loss of money, parallel many situations which we who devote ourselves to ecclesiastical architecture often experience. However, I have not as yet seen them described so lucidly and Bob is to be congratulated not only for his skill in writing, but for having produced a building which is a milestone in the creation of religious structures.

HAROLD E. WAGONER
President, Church Architectural Guild of America
Philadelphia, Pa.

T-SQUARE TALK

new offices

Eckbo, Dean & Williams, landscape architects, have opened a Seattle office at 1314 E. 43rd St., directed by Francis Dean. The firm also has offices in San Francisco (Edward Williams) and in Los Angeles (Garrett Eckbo).

Robert E. Des Lauriers has opened an office for the practice of architecture at 4052 Calavo Drive, La Mesa, Calif.

Albert Sigal Jr., formerly partner of Sigal, Johnson & Hawley, architects, has established his own firm at Stanford Professional Center, 800 Welch Road, Palo Alto, Calif.

Victor O. Gray has opened an office for the practice of structural engineering at 1210 Stewart St., Seattle.

Walter J. Pappas has opened his own architectural office in Klamath Falls, Ore., in the old Pine Grove schoolhouse which was remodeled into a studio by the late Sheldon Brumbaugh.

firm changes, additions

Frederick H. Furer, who has practiced architecture in Los Angeles for the past 10 years, has returned to Honolulu to join his father, William C. Furer, in the firm of Furer & Furer.

J. D. Kesterson has become the third partner in the architectural firm of Carson & Moe in Kennewick, Wash.

Dan G. Gillham has joined the consulting engineering firm of Dudley Deane & Associates of San Francisco as vice president and chief electrical engineer.

new addresses

J. Lloyd Conrich, architect, to 45 Second St., San Francisco.

Stuhr & Hicks, architects, to 3121 California Ave., Bakersfield, Calif.

Frank Stanton, architect-specification consultant, to the Town House, 1400 Hubbel Place, Seattle.

Ernest M. Hicks, architect, to 316 Elder Building, Coeur d'Alene, Idaho.

Orange County Chapter, AIA, to 325 Spurgeon Building, Santa Ana, Calif.

deaths

Milton H. Caughey, partner in the Los Angeles architectural firm of Caughey & Ternstrom, died July at the age of 47. After receiving degrees from Amherst College ('34) and Yale University ('38), he was associated with several eastern firms and later with Marsh, Smith & Powell and Gordon B. Kaufman in California. A member of the Southern California Chapter, AIA, he maintained his own office from 1946-53.

appointments

Richard A. Patrick has been appointed architectural coordinator and general manager of Heitschmidt & Thompson, Los Angeles architects, following three years as executive secretary of the California State Board of Architectural Examiners.

Walter Gordon, Portland architect and newly appointed dean of the School of Architecture and Allied Arts at the University of Oregon, has been named to the state's Capitol Planning Commission.

James Kesler has been appointed chief structural engineer of Daniel, Mann, Johnson & Mendenhall, Los Angeles architects-engineers. He has been with DMJM since 1950 except for a brief period as partner in his own firm.

Portland architect Gordon E. Trapp has been appointed to the Multnomah County Planning Commission.

Architect John S. Bolles has been elected president of the San Francisco Art Association.

William G. Brownie has been appointed vice president in charge of construction management for Pereira & Luckman, Los Angeles architectural-engineering firm.

elections

Originally elected officers of the Washington State Chapter, AIA, headed by president Harrison J. Overturf (PA&B, July '58), were again voted into office in a special election held in August. The entire slate had resigned because of a dispute concerning procedures in the June election.

campus notes

The newly created School of Architecture at Montana State College in Bozeman, headed by Prof. H. C. Cheever, has received provisional accreditation by the National Architectural Accrediting Board.

Regional AIA meetings set for Northwest, California

Getting the fall conference schedule off to an auspicious start will be the Northwest (Washington, Oregon, Idaho, Montana and Alaska) and California AIA regional councils, both convening in October and lining up substantial programs.

At Harrison Hot Springs

When the Northwest architects meet at Harrison Hot Springs, B. C., October 9-12, they will be joined by their colleagues from across the border in exploring the theme, "Toward a Better Environment." The Washington State Chapter and the Architectural Institute of British Columbia will act as co-hosts.

Headlining the list of speakers will be Louis I. Kahn, Philadelphia architect and Yale University design critic. Others who will look at the problem of evolving a better environment, both in individual buildings and in the broader landscape into which these buildings must fit, will be C. E. Pratt, Vancouver, B. C., architect; Gideon Kramer, Seattle industrial designer; and Melvin Rader, University of Washington philosophy professor. National AIA president John Noble Richards of Toledo also will attend.

Conference chairman is A. O. Bumgardner of Seattle.

At Monterey Fairgrounds

"Creativeness in Architecture" will be considered by more than a dozen speakers when the 11 California chapters meet October 15-19 at Monterey County Fairgrounds. The professional program will begin Wednesday afternoon with a panel discussion on "The Creative Mind." Participants: Dr. Donald McKinnon, psychologist and director of the Institute of Personality Assessment and Research, University of California; Jo Sinel, industrial and graphic designer; and Charles Eames, best known for his designs for Herman Miller Furniture Co.

Other seminars: "Materials as Creative Tools"—Robert Billsbrough Price, Tacoma architect; David Countryman, Douglas Fir Plywood Association research engineer; Elmer Gunnette, Seattle district engineer for the American Institute of Steel Construction; "Creativeness in Architecture"—Victor Lundy, Sarasota, Fla., architect; Walter A. Netsch Jr., chief of design for the San Francisco office of Skidmore, Owings & Merrill; and Paul Thiry, Seattle architect; "Structure in Creative Design"—Fred N. Severud, senior partner in the New York firm of Severud-Elstad-Krueger, consulting engineers; "Creativeness in Architecture: Synthesis" — Harry Weese, Chicago architect.

Winding up the professional program will be a junior associate and student seminar featuring analyses of specific buildings by three project designers: Richard Hein of Anshen & Allen, San Francisco; James Langenheim of Pereira & Luckman, Los Angeles; and Neill Smith of John Carl Warnecke, San Francisco.

Philip Douglas Creer, architect of Providence, R. I., will address the regional luncheon. Loy Chamberlain of Oakland heads the convention advisory committee.

HAWAII IN '59

The Californians will hold their 1959 conference at Henry J. Kaiser's Hawaiian Village Hotel, with architects from the entire Pacific area invited to participate. Probable dates will be October 7-14 and all travel arrangements will be handled by the Andrew L. Lerios agency, whose principal offices are in San Francisco and Los Angeles.

"Planned telephone convenience marks the well-built home!"

says Jim Fitzpatrick, partner, Fitzpatrick-McIntyre, Tacoma, Wash.

"Telephone surveys show where people want added phone convenience in their homes today. Kitchen, master bedroom and den all rate high. And when our prospective customers find built-in telephone outlets in those rooms, they are more than ever convinced that ours are quality homes.

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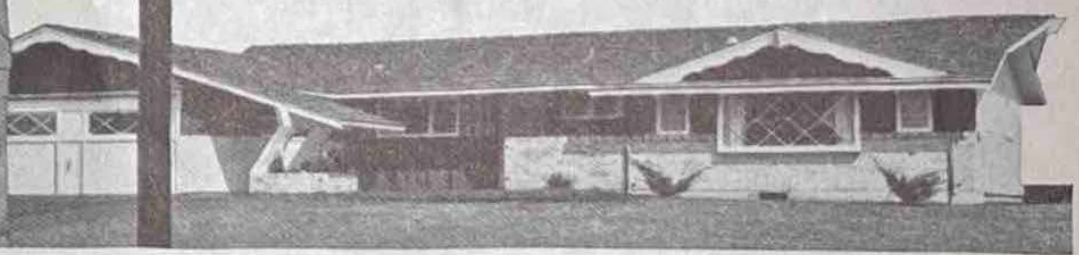


It pays to include Telephone Planning in every home you build!

MANUFACTURERS/SUPPLIERS

• **Sani-Top Mfg. Co.** has appointed two manufacturer's representatives for its line of bathroom vanity pullmans and medicine chests: Clyde E. Keeler & Associates of Seattle, in Washington, Oregon and British Columbia; and E. E. Gundaker and E. J. Frye of Sacramento, in northern California.

• **Leadlight Fixture Co.** of Oakland has introduced a policy of providing engineered layouts for new luminous ceiling installations, showing how the framework will be laid out, type of plastic recommended, light level and fixture arrangement.

• **Day & Night Mfg. Co.** of La Puente, Calif., has promoted Frank R. Spratt from assistant to general sales manager. Other promotions: Craig C. Stirewalt to assistant general sales manager and Ralph Langley to California regional sales manager.

• **Security Control Co.** has opened offices and warehouse facilities at 401 Elliot Ave. W., Seattle, to supply a complete physical security service to Washington, Oregon, Montana, Idaho and Alaska. Partners in the new firm are Blaine Highfield and Mark Jensen, who have been in the safe and lock business for a number of years.

• **Calaveras Cement Co.** has appointed Lowell Garrett, with Reno headquarters, as representative for western Nevada, southern Oregon and the Sierra Nevada counties of California.

• **National Gypsum Co.** has named Kaiser Gypsum Co. as representative for its new line of metal lath products in 11 western states, Alaska and Hawaii.

• **General Tire & Rubber Co.** has a new West Coast manager for its building materials division, Richard E. Gardner.

• **Stacor Equipment Co.** has appointed A. Lietz Co. of San Francisco and Los Angeles as distributor in five states, including California and Oregon.

• **Goodyear Tire & Rubber Co.** has assigned Paul E. Mulvehill to Los Angeles as flooring representative.

• **Columbia-Geneva Division,** United States Steel Corp., is constructing a major addition to its Pittsburg, Calif. plant—a continuous annealing (heat treatment) line which will require more than 1½ years to complete.

• **Thermador Electrical Manufacturing Co.,** Division of Norris-Thermador Corp., has promoted Anthony A. Celio from advertising to sales manager of the Los Angeles district; and Richard F. Gamble from assistant advertising to advertising manager.

• **WasteKing Corp.'s** director of consumer relations, Mrs. Sylvia White of Los Angeles, has been named southern California's "Woman of the Year."

• **Ideal Cement Co.** will construct a $2 million cement storage and distribution facility in Vancouver, Wash.

• **Durox of Southern California, Inc.,** has been organized in Los Angeles to produce a lightweight cellular concrete which is as light as wood but has the characteristics of stone, licensed under a Swedish patent.

• **Nevamar Carefree Kitchens** has appointed Miss Lucille Gardner as factory sales representative in the Greater Los Angeles area, with offices in the firm's new showroom at 1150 De-Forest Ave., Long Beach.

•

LUMINOUS CEILING

employed in Lincoln High School in Stockton, Calif., is composed of 3x3-ft. plastic panels suspended from Unistrut channels. Space above ceiling, produced by Benjamin Electric Manufacturing Co., is also plenum for heating and for plumbing and electrical conduits. Slight pressure built up in plenum prevents accumulation of dust on upper side of panels, through whose edges heating and ventilating air enters classrooms. Ceiling design by architect Dana D. Carrough won second prize, institutional class, in international lighting competition sponsored by National Electrical Manufacturers Association.

• **Gates & Sons of Washington, Inc.,** formerly United Distributors, at E. 3003 Courtland Ave., Spokane, is the recently formed subsidiary of Gates & Sons, Inc., of Denver. Secretary and general manager of the new firm is Garrett Matthews.

• **Pabco Building Materials Division** of Fibreboard Paper Products Corp. has appointed J. C. Croudace as manager of its Portland roofing plant, succeeding Walter Simon who has been promoted to company headquarters in San Francisco.

• **W. P. Fuller & Co.** of San Francisco has appointed E. R. MacMillan to the newly created position of assistant to the president.

• **Timber Engineering Company of California, Inc.,** of San Francisco and Los Angeles has a new corporate name, Timber Fasteners, Inc., and a new brand designation, Timfast.

• **Kraftile Co.'s** vice president in charge of production, Leslie R. Alt, of Niles, Calif., has been made a fellow of the American Ceramic Society.

• **Simplex Forms System, Inc.,** has appointed a new Far West assembly and distribution outlet in Seattle, headed by Richard Nyman. He joined with his brother, Donald, in 1955 to found Nyco, Inc., of Denver, western distributor and fabricator for Simplex.

• **Armstrong Cork Co.** has assigned William J. Quigley of Spokane as field salesman for its general line of building products.

• **Unistrut Products Co.** has established a company-owned subsidiary, Unistrut Northern California of Berkeley, formerly operated as an independently-owned distributorship, and has named George McKay as general manager.

• **The Trane Co.** has assigned M. L. Franzel to its Los Angeles office as sales engineer.

• **Westinghouse Electric Corp.** is building a product distribution center in San Lorenzo, just south of Oakland.

• **Spanall of the Pacific, Inc.,** of Oakland has elected these officers: Graeme K. MacDonald, president; Charles Edward Nelson, vice president; and Frederick C. Whitman, director. The firm has a franchise for five western states, Alaska and Hawaii

for a newly developed horizontal shoring for concrete floor slabs called Spanall.

• **The Fluor Corp., Ltd.**, has purchased the assets of Summerbell Roof Structures of Los Angeles, one of the nation's largest manufacturers of glued-laminated timber products and wood roof trusses. Summerbell is being operated as a division, with Harold S. Bender, assistant to the president of Fluor, as general manager.

• **Plextone Corporation of America** has a new West Coast distributor: Far West Paint Co. of Seattle.

• **Electro Silv-A-King Corp.** of Redwood City, Calif., is now known as Electro Lighting Corp.

• **Weber Showcase & Fixture Co., Inc.**, of Los Angeles has named Richard S. Testut as vice president in charge of sales for its store fixture, WeberWall partition and laboratory equipment divisions.

• **Insto-Gas Corp.** has appointed W. Blaine Martin Co. of Salt Lake City as its manufacturer's representative in the Mountain States territory, including eastern Washington, eastern Oregon and the states of Montana and Idaho.

FABULOUS SWAPS

with all four feet off ground and jockey Willie Shoemaker in saddle will run forever at Hollywood Park where he set all his records. Statue was cast in bronze by A. J. Bayer Co. of Los Angeles from model created by southern California sculptor Albert Stewart. Using plan drawings made by Millard Sheets, director of Los Angeles County Art Museum, Stewart worked for more than year perfecting model.

•

• **K-Lath Corp.** of Alhambra, Calif., has appointed architect Edward F. Wantland, formerly associated with Pereira & Luckman and Gordon B. Kaufman, as consultant to assist architects, engineers and builders.

NATIONAL ASSOCIATIONS

• **Sliding Glass Door and Window Institute**, with headquarters in Los Angeles, has announced construction in Santa Maria, Calif., of the nation's first research and test facility designed exclusively for sliding glass doors and windows.

• **Douglas Fir Plywood Association** has named Douglas Walker to the dual capacity of regional manager in Tacoma and assistant to Stanley A. Taylor, field promotion director.

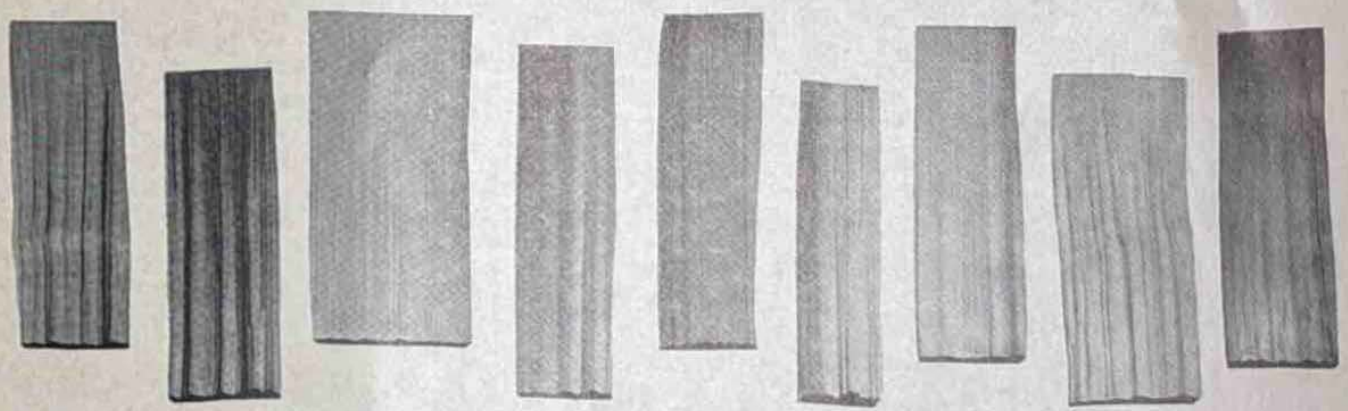
• **Hardwood Plywood Institute** of Chicago has elected a new managing director, Clark E. McDonald, who leaves his position as vice president and general manager of the Miami division of Logan Lumber Co.

• **Metal Curtain Wall Division** of the National Association of Architectural Metal Manufacturers has chosen Ralph L. McKenzie of Flour City Ornamental Iron Co., Minneapolis, as president.

• **Wire Reinforcement Institute, Inc.**, of Washington, D.C., has elected as president, Earl C. Planett, head of Planett Manufacturing Co. of Downey, Calif.

like fingerprints . . .

NO TWO SHAKES ARE ALIKE



In making handsplit shakes—as with any truly hand-crafted material—uniform appearance is *not* desirable, nor is it even possible! Uniform quality, however, is another matter. *Quality can be controlled.* When you see the Certi-Split label beneath the bandstick of handsplit cedar shake bundles, you know that quality *has been* controlled. Specify and insist on Certi-Split. It is your assurance of *top grade, full count* and *uniform quality.*

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550 Burrard Street, Vancouver 1, B.C.

STEEL SEMINAR PANELISTS J. P. Silvestri, director AGC; John A. Blume, past president, SEA of California; Donald Powers Smith, president, Northern California Chapter, AIA; Stephen G. Herrick, director, AISC; Weldon Richards, president, Central Chapter, AGC; and Michael Prognoff, past president, SEA of Northern California.

Steel's role cited in California's building boom

A statewide, record-breaking building boom during the next 10 years has been predicted by two leaders in California's construction industry. Addressing a structural steel seminar sponsored by the American Institute of Steel Construction in Oakland recently, John A. Blume, San Francisco consulting engineer, and C. M. Gilliss, state director of public works and chairman of the California Highway Commission, envisioned future private and public construction activity that will eclipse all previous records.

Blume labeled the next decade as the "Sailing Sixties" and predicted that private construction in the next 10 years will double and possibly triple. He based his optimism on the West's growing population and on the needs of the postwar bumper crop of babies which will be marrying and establishing families during the '60s. He said that future spending on private construction in California should average as high as $2 billion a year compared to the record high of $1.2 billion in 1956.

Gilliss told the group that the structural steel requirements of the California Highways and Architecture divisions will be about 28,000 tons during the fiscal year beginning next month.

"Put the crystal ball readings for the two divisions together and it is easy to see a state requirement for 50,000 tons of structural steel a year sometime before 1964," Gilliss declared. "That does not take into account any of the steel requirements for the reconstruction of the San Francisco-Oakland Bridge or for any of the talked-of-improvements to any other of the state's toll bridges. Nor have I even considered the possibilty of building a new Bay bridge.

"Fifty thousand tons a year is a pretty big figure, especially when one recalls that the state used only some 2,000 tons of structural steel in 1938, just 20 years ago."

Referring to the destiny of California, Gilliss explained. "When we designed the four-level Hollywood Freeway interchange or mixmaster for 100,000 vehicles per day, we were accused of being visionaries, of wasting the taxpayers' money. We made a mistake all right. The structure carried 180,000 vehicles within four years after construction. Our sights were simply not high enough."

Stephen G. Herrick, president of Herrick Iron Works in Hayward and an AISC director, pointed out that expanded production of structural steel had finally caught up with the unprecedented demand that had kept the product in short supply for a number of years.

Architect will keynote national PCI meeting

Keynoter Charles Luckman, Los Angeles architect, will share the podium with seven other Californians during the annual convention of the Prestressed Concrete Institute in Chicago September 22-25. As institute president, Ben C. Gerwick Jr. of San Francisco will preside at the sessions.

Others who will participate in the four-day program are Ralph E. Knight, Kaiser Aluminum & Chemical Corp., Oakland; Robert Singer and William J. Talbot Jr., Ben C. Gerwick, Inc.; Jack Streblow, Basalt Rock Co., Napa; Felix Kulka, T. Y. Lin & Associates, Los Angeles; and Prof. T. Y. Lin, University of California.

Luckman's talk will be devoted to marketing, one of the major topics to be considered during this year's convention. Professor Lin, recently returned from Russia, will report on prestressed concrete in the U.S.S.R. relative to U.S.A. practice.

Other subjects for discussion: yard handling, transportation and erection techniques; quality concrete for prestressing; interpretation of specifications in relation to inspection; proposed PCI certifications of prestressing plants.

Keats (Cont'd from p. 10)

By describing vividly the adventures of the Drone family, who bought a house advertised as a "California Cape Cod Rambler" in a development called Rolling Knolls, the wife is becoming increasingly irritated by house and neighborhood, thus becoming a nag, and the husband cannot understand the problem because he doesn't live in the house.

This reviewer was much amused by the way the author pictures the more philistine aspects of living in development housing and the more stupid aspects of much of our housing architecture and planning. Yet, the author is not always making it clear at what he is driving except for exposure as such.

Keats, after complaining about the foul design, finds that Mary Drone's day "might have been more bearable than it was—but only if her house had not been built in Rolling Knolls." We remember, of course, that Rolling Knolls had houses but not yet any parks, schools, churchyards or community centers. Because of insufficient space between the ill-conceived houses, we see how familiarity breeds contempt. Mary Drone had fallen into a world of women without men, nay, she "dwelt in vast communistic female barracks" where the husband arrives just for eating and sleeping and where the house could never be a home.

In his criticism of architecture Keats is justly recognizing weak sides of much of our tract housing, but his specific gripes do not necessarily betray his own good understanding of design. While quoting from such designers and critics like Robert Woods Kennedy and T. H. Robsjohn-Gibbings, he also makes some questionable hints at the proverbial old three-story family houses on Elm Street which, of course, have basements. Instead of comparing developments like Rolling Knolls with some outstanding ones like Park Forest, the housing slum is juxtaposed by some exurbanite or semirural idyl where our rugged individualist is rearing his all-American family and can have real friends. But even such an ideal condition is not very well circumscribed.

Our two books under review are most valuable in an increasingly heated debate. There is no doubt that the physical aspects of our vast housing developments are largely terrifying. They are the more terrifying because Keats' implied generalization, that incompetent and dishonest builders are the culprits, is just not true. There have been some farsighted builders who have profited from the help of competent architects. However, rarely

is the architect-planner called in early enough in the game, given sufficient artistic authority or given the opportunity to guide planning research in a way that it yields results which are useful for advanced environmental design. We have seen developments where the individual unit was carefully designed by an architect to provide for simple but beautiful living, but the units were crowded together into a potential slum. Natural beauty of a site, not always favoring equal sized lots, is often neglected. Self-consciousness about obvious monotony leads often to silly notions of "variety" by curving streets in an inane manner or by changing orientation and "trimmings" of the same types from house to house. Despite these devices, the monotony is usually unbearable. Then, there is much wrong with today's housing as far as detailing is concerned. Time-honored horrors of malpractice together with cheap ideas of cutting corners at every detail are not any more confined to the few units done every year by untalented individual builders, but are characterizing a good many large-scale developments. Another alarming fact is that these poorly designed houses in monotonous neighborhoods are not entirely restricted to low-cost housing; some reach into the $12,000 plus bracket.

What is the explanation to all this? John Keats' brilliant journalistic effort doesn't provide for the answer.

That the barbecue block parties are dull and senseless, that conversations touch upon "safe" subjects only, that sex life turns perverted in such steamy culture, that unnecessary gadgets are constantly and thoughtlessly purchased on time payment while making some people rich, and that deep friendships cannot develop in homogenous communities with homogenous physical environment—all that is very true and cannot be condemned sharply enough. But, why is Keats picturing us as the Drone family whose slight mental deficiency, indulgence and naivete' is beyond doubt?

It seems that our proverbial provincialism found just the appropriate setting which had to be provided by someone. Furthermore, our provincialists are not pioneering any more in an individualistic frontier setting. They are well integrated in the mandarin system of corporate industrialism which is exploiting applied psychology to the end of such homogenous living.

Keats is erring when he thinks that "housing developments are a new world, one in which sociologists are just becoming profoundly interested." The literature on housing is tremendously rich with contributions from all the professions concerned. Modern housing has been a by-product of industrialism since the industrial revolution. Even the most recent phenomenon of suburban tract building by merchant builders has been described and scrutinized widely. In fact, Keats is quoting some sources himself. As far as financial practices are concerned including "psychological ownership," which is pulling the rug under your feet as soon as you fail to pay your monthly installment, there is nothing unique about it. It is part and parcel of our present way of doing business in any branch of our economy for whose defense we pay most of our tax dollars.

Keats' critical eyes have not only seen keenly the shortcomings of our life in Rolling Knolls but he has also seen some of the advantages of Japanese housing culture. Yet what could be the implication as well as the application of such comparison? That the Japanese have cultivated open house plans, beautiful proportions down to the last detail and a deep devotion to the arts is not the result of them all being artists. It is the matter of a long cultural tradition which is at least partially on the wane under the influence of the same industrial developments in which we have excelled for some decades. Industrial standardization is not imbued with the spirit of Zen. This would not mean, however, that there is no lesson to learn from this comparison with the Japanese house. Creative artists like Wright were inspired by Japanese tradition and showed the way to planning and design of healthy housing.

Finally, the question of planning and designing of better housing should be attacked on a very broad front. To accuse some corrupt builders and bankers doesn't get us anywhere. But let me not be unfair to Keats. He proves to have recognized a major point under discussion. The last 20 pages cite men like Gutkind, Neutra, Kennedy and Stein. The quote from Gutkind sums up this point very well, saying that our condition "is a total victory of a laissez faire insensibility and recklessness over organic growth and even over organized development." But perhaps even this statement is somewhat outdated. Modern industrial organization is powerful in its systematization of human life and becoming less and less laissez faire. Wealth and managerial power are becoming frightfully concentrated in the hands of relatively few people. Housing has become part of this development. This has been recognized for some time, but discussion about it is not always very frank, which is quite in line with conformist thinking.

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Whyte (Cont'd from p. 10)

has shaped these communities in which Organized Man has found a way station in his wanderings. As Whyte puts it, it is Organization Man "who sets the tone, and if he is as uncertain as any in keeping up with the Joneses, it is because he is the Joneses." Keats' Droneses did not realize this. They are partially unhappy, not because of the housing business, but because they could not adjust to what they were supposed to adjust. They could not comprehend the machinery of tax withholding, package mortgages, credit buying and all the other devices which are taking care of us without having much choice. In other words, the Droneses complained about symptoms. If they had wanted to recognize the true situation and do something about it, they would have to revise the major dominating social and economic practices of our day. Although not everybody really likes this situation, Keats does not realize how many actually do. As Whyte sums up this condition, "Perhaps not since the medieval town have there been neighborhood units so well adapted to the predilections and social needs of its people."

This condition actually does not lead to identical patterns as far as social groupings in neighborhoods are concerned. Detailed studies of Whyte show a number of characteristics. Within the general framework of existing planning layouts there are interesting differences which reveal the power of design. Physical layouts in planning as well as the design of the housing type can produce happy or unhappy conditions in groups and thus in families. It seems to this reviewer that Whyte could at this point have stressed more the importance of the architect as planner and designer. Many of the current complaints could have been eliminated from the discussion if imaginative artistry would have been at work. After all, we have very few housing developments with the relatively high design standards of Park Forest where most of Whyte's studies were made.

In conclusion, Whyte is pleading for a good balance between individualism and the forces of Social Ethic which appear authoritarian and demand adaption to the point of conformity. In striving for this, we should look ahead, we should reinterpret because we cannot return, we should apply to our problems the basic idea of individualism, not ancient particulars. The tomorrow is already here.

Maybe the main criticism one could level at Whyte is that there is always a tomorrow and that we should already give some thought to the question of what lies beyond the one of Organization Man. In any event, both books reviewed are raising important questions of contemporary social organization and its expression in housing. Both books make for fascinating reading.

The Structures of Eduardo Torroja. By Eduardo Torroja. F. W. Dodge Corp., 119 W. 40th St., New York 18, N. Y. 1958. 198 pp. $8.50.

In his first published summation, the Spanish architect-engineer describes and explains 30 of his most significant works, organized into five major sections: large shells, viaducts and aqueducts, special structures, steel and composite structures, churches and chapels. Engineering details are given and in some cases alternate designs which were later discarded are shown. Over 275 illustrations are included.

Very little has been published by or about Torroja, whose work has felt the effects of the Spanish Civil War and the lack of prosperity that followed. But in his foreword Mario Salvadori says: "As has so often been true in the history of creative achievement, the limitations themselves—the very factors interfering with the solution of a problem—enhance the intrinsic value of the final product."

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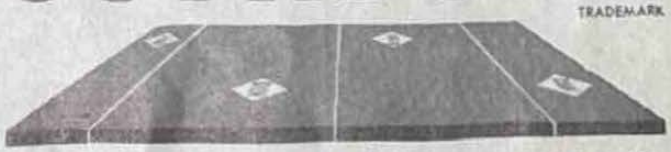

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(A weekly summary of Pacific Construction Daily)

Vol. 64—No. 20 (PA&B) News Section of Pacific Architect and Builder September 20, 1958

Dorothy McCormick ..... News Editor Win Romtvedt ..... Portland Correspondent
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BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★ELEMENTARY SCHOOL ADDITION— Baker, Ore.

Award to DeGree Construction Co., Box 383, Bend, $196,975 (basic plus alternates), by Baker School District No. 5, Baker County, Ore., for construction of a concrete and concrete block, 16,500 sq. ft. addition to North Baker elementary school between 7th and 8th on B St., Baker. Plans by Hayslip, Tuft, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland.

Five bids received September 10. OTHER BIDS: Witham Bros., 1403 Broadway, Baker, $201,995; Riverman & Sons, 1230 N.E. 63rd Ave., Portland, $207,642; Bechtel Bros., Box 792, LaGrande, $212,782; McCormack Construction Co., S.W. 3rd and Goodwin, Pendleton, $217,806.

WB 9-13. Previous report 9-6

●HOSPITAL— Bandon, Ore.

Bids will be opened 2 p.m., September 30, by Southern Coos General Hospital District, Carl Lorenz, chairman of the board, City Hall, Bandon, for construction of 22-bed, one-story, 11,500 sq. ft. frame and brick veneer hospital. Plans with Dougan & Heims and Howard Glaisyer, associated architects, 401 Royal Bldg., Portland. $25 deposit. Certified check or bid bond 10%. Separate bids for kitchen equipment, and for sterilizing equipment.

Site is overlooking the bay near Bandon. Hospital will include surgeries, delivery rooms, X-ray and kitchen facilities, etc. Some cedar siding on exterior; concrete slab floor; aluminum windows; stainless steel flashings; built-up roof; plastic skylight domes; vinyl tile floor coverings; plaster walls; acoustical plaster ceilings; ceramic tile walls and floors in surgeries and other areas; hardwood millwork and doors; two boilers for heating, ventilation system; built-in cooler; call and paging systems; some blacktop paving. WB 9-13

●SCHOOL IMPROVEMENTS— Coos Bay, Ore.

Bids will be opened 8 p.m., September 24, by Coos Bay School District No. 90, 7th and Hall streets, Coos County, Coos Bay, for heating, plumbing and electrical work on the classroom addition to the Summer school in Coos Bay. Specifications with above office. LC 9-12

●RANGER STATION BUILDINGS— Douglas County, Ore.

Bids will be opened 2 p.m., P.S.T., October 2, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland (Box 4137), for construction of one-story, frame buildings, a 50'x27' office building, three 50'x40' residences, and a gas and oil house, at the Toketee Ranger Station, Umpqua National Forest, Douglas County, Ore.; Bid No. R6-59-100. Plans with above office, or with Forest Supervisor, Post Office Bldg., Roseburg. WB 9-17

●PAINTING— Eugene, Ore.

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for interior and exterior painting, miscellaneous improvements and repairs, to the U.S. Post Office, 5th Ave. and Willamette, Eugene. Specifications with above office. LB 9-16

●PAINTING BUILDING— Eugene, Ore.

Bids to be opened 2 p.m., September 22, by State Department of Finance and Administration, 1225 Ferry, Salem, for interior and exterior painting of the State Office Building, Department of Motor Vehicles, Pacific Highway and Walnut St. in Eugene; Inv. S-5043-58. DC 9-17

★ST. MARY'S CHURCH— Florence, Ore.

Award to Frank Rose, Florence, no amount announced by St. Mary's Church, for new church to be located two miles south of Florence. Plans by Jacobberger, Stanton, Franks & Norman, architects, McKay Bldg., Portland.

The 36'x90' structure will seat 224 persons; future additions of sacristies and choir rooms will bring capacity to 266. Wood frame structure with glued laminated arches; concrete slab floor; aluminum and wood sash; cathedral glass; exterior finish of fir texture plywood (combination sheathing and siding); 2" tongue and grove fir deck with double stripping and cedar shingles; gas hot air perimeter heating; covered porch connected with cross tower of interpiercing, triangular forms made of 6x6 timbers. Interior nave finish and painting will be done later. WB 9-12

●BUILDING REPAIRS— Gresham, Ore.

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for new marquee and miscellaneous repairs to the U.S. Post Office, Powell Blvd. and N.W. Miller St., Gresham; SEA-1119. Specifications with above office. LB 9-16

●SIX-STALL GARAGE— Hines, Ore.

Bids will be opened 2 p.m., September 25, by Oregon State Game Commission, 1634 S.W. Alder St., Portland (Box 4136), for construction of a wood frame, 25'x100' six-stall garage at the commission's regional office at Hines, near Burns, Ore. Plans with above office. Certified check or bid bond 10%.

Concrete foundation and floor; wood siding; wooden overhead doors; truss roof; composition roofing. WB 9-16

●RANGER STATION BUILDINGS— Jackson County, Ore.

Bids will be opened 2 p.m., P.S.T., September 30, by U.S. Forest Service, Frank Walisch, regional supply officer, 729 N.E. Oregon St., Portland, for construction of four frame residences, an office building, and a gas and oil house, all one-story frame buildings, at Prospect Ranger Station, approximately 62 mi. northeast of Medford, Rogue River National Forest, Jackson County, Ore.; Bid No. R6-59-92. Plans with above office or with Forest Supervisor, Post Office Bldg., Medford.

Overall dimensions of the residences are approximately 50'x40' and 64'x40', and the office building, 50'x28'. Septic tanks, drainage fields, water lines and other utilities are required. Completion time 160 calendar days. WB 9-12

★BANK ADDITION— Klamath Falls, Ore.

Contract negotiated with Duncan Construction Co., Box 1088, Klamath Falls, by Elton W. Smith, manager, Town & Country Branch, United States National Bank of Portland, 3618 S. 6th St., Klamath Falls, for construction of a 20'x16' extension of the bank's roof to form a canopy for drive-in banking window facilities. Work also includes approximately 20' of 6" concrete curbing. ZZ 9-12

●ROOFING, INSULATION— Klamath Falls, Ore.

Bids will be opened 3 p.m., P.S.T., September 25, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for new roofing and thermal insulation to the U.S. Post Office, 7th and Oak St., in Klamath Falls; SEA-1206. Specifications with above office. LB 9-16

STATE INSTITUTE BUILDINGS— Klamath Falls, Ore.

(Estimated cost $5,300,700)

A building program has been recommended to the 1959 State Legislature by the State Board of Higher Education, for Oregon Technical Institute, on a 120-acre site at the edge of Klamath Falls. The program includes construction of an engineering and science building, an allied arts and medical associates building, an architects-engineering building, administration building and a dormitory and cafeteria building. Also included, are family housing units which will cost an estimated $2,408,000. Only 50% of this amount would be included in the budget, the rest to be obtained on a long-term loan from a private lending agency. Eighty acres of land will be donated by local organizations and the rest will be purchased by the state at an estimated cost of $13,000.

The recommendations approved above cover the 1959-61 biennium, the first two years of a 10-year program. The 1961-63 biennium recommendations submitted include: agriculture building, $760,000; warehouse and maintenance building, $589,000; an auditorium and physical education building, $871,500; engineering laboratories and shops, $2,565,000; family housing units, $1,100,000. Only 50% is included in the state cost estimates, the remainder would be borrowed. LC 9-17

★REMODEL HIGH SCHOOL— Klamath Falls, Ore.

Award to Brosterhous Construction Co., 1541 Elm St., Klamath Falls, $22,300, (basic), by Klamath Union High School District No. 2, Harold Ashley, clerk, room 200, Klamath Union High School, Mon Clair St., Klamath Falls, for remodeling the basement of

Klamath Union High School, in Klamath Falls. Plans by Howard R. Perrin, architect, 1121 Main St., Klamath Falls.
ZZ 9-17. Previous report 9-11

●BUILDING ALTERATIONS— **Medford, Ore.**

Bids will be opened 3 p.m., P.S.T., September 29, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for structural alterations to the Federal Office Bldg., Riverside and 6th, Medford; SEA-1116. Specifications with above office.
LB 9-16

▲OFFICE BUILDING— **Medford, Ore.**

Five bids ranging from a low of $43,890 (100 calendar days completion time) by Cummings Construction Co., 1050 Belle Aire Drive, Grants Pass, to a high of $50,843 (120 days), were opened in the office of the architect, Robert J. Kenney, Fluhrer Bldg., Medford, for construction of a 5,200 sq. ft. frame, office building in Medford to house offices for Jackson County public welfare and the state tax commission groups, and others. This is first unit of extended project of offices which will eventually cover the entire block which is owned by Wilson & McCabe Refrigeration Co.

Other bids opened September 9 were: Myers D. Jones, 34 S. Fir, Medford, $46,890, 100 days; R. J. Batzer, 933 S. Holly, Medford, $48,413, 129 days; Don L. Jacobs, 307 N. Peach, Medford, $48,425, 110 days; Salter & Klein, Rogue River, $50,843, 120 days.
DC 9-16. Previous report 9-6

★CAFETERIA COMPLETION— **Portland, Ore.**

Award to Wilson & Dean, 1016 N.E. 61st Ave., Portland, $16,433, by School District No. 27, Multnomah County, 740 S.E. 182nd Ave., for completion of cafeteria at North Rockwood Primary School, 330 N.E. 172nd Ave., Portland. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland.
WB 9-12. Previous report 9-4

HIGH SCHOOL ADDITION— **Portland, Ore.**

Donald W. Edmundson, and Neil R. Kochendoerfer, architects, and R. Evan Kennedy, structural engineer, 325 Henry Bldg., Portland, have been retained by Portland School District No. 1, 620 N.E. Halsey St., Portland, to design an addition of 12 general and four science classrooms to Woodrow Wilson High School, 1151 S.W. Vermont St. Preliminary plans are to be completed by November 10, 1958, and working drawings by March 30, 1959.
WB 9-13

PRIMARY SCHOOL— **Portland, Ore.**

W. H. Gilmore, architect, Governor Bldg., Portland, retained by Portland School District No. 1, 620 N.E. Halsey St., Portland, to design a six-classroom primary school at N.E. 74th Ave. and Pacific St., Portland. Preliminary plans are to be complete by October 13, and working drawings by December 29. The school, which will be designed for expansion, will include kindergarten room, teachers' lounge and lunch room, heating plant, administrative unit, store rooms, lavatory facilities and playroom.
WB 9-13

▲FINISHING BUILDING— **Portland, Ore.**

Seven bids received by Multnomah County Commissioners, John W. West, purchasing agent, 504 County Courthouse, Portland, for finishing the northwest corner of the second story of the Multnomah County Health & School Bldg., 12440 N.E. Glisan St., Portland. Bids opened September 11. BIDS: Gene Settergren, 1625 S.E. Woodward St., $17,477; Supreme Builders, Inc., 4232 N. Williams Ave., $17,662; Wilson & Dean Construction Co., Inc., 1016 N.E. 61st Ave., $17,746; A. C. Bardi, 4200 S.W. 103rd Court, $17,932; Raymond Ems, 13385 S.W. 72nd Ave., $18,324; Associated Building Contractors, Inc., 7117 S.E. Main St., $18,544; E. Carl Schiewe, 1024 N.E. Davis St., $19,818. All of Portland.
WB 9-13. Previous report 9-5

CENTENNIAL PAVILION—Portland, Ore.

Plans are underway by Donald Blair, architect, 1328 S.W. 14th Ave., for a triangle-shaped, steel, wood, plastic, and lightweight block pavilion to be constructed for Portland General Electric Co., Electric Bldg., Portland, at the Oregon Centennial Exposition and International Trade Fair at the Pacific International site in North Portland.

The main structure will be punched open web steel; the three walls, 100' wide on each side, will be of a lightweight block screen; center roof structure, three-sided, conical dome of lightweight steel sections covered with strips of cathedral plastic in various colors; flat roof areas of vaulted, prestressed plywood; the 25' high building will have 500 sq. ft. of exhibit space, plus a balcony for viewing exhibits; 100' steel tower on top; outdoor garden landscaped areas; no windows or doors. This exhibit will be located across the main mall from the Forest Products Pavilion.
WB 9-13

▲MEDICAL CLINIC **Portland, Ore.**

Bids received September 12 for construction of a wood frame medical clinic in Cedar Hills Shopping Center are a on S.W. Park Way, Portland (near Beaverton) are being analyzed by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. The bids were very close, and alternates will affect the determination of the low bidder. The owner is C. H. Parkway Co., 1695 S.W. Marlow Ave., Portland.
WB 9-16. Previous report 9-5

PRIMARY SCHOOL— **Portland, Ore.**

Williams & Martin, architects, 1919 S.W. 12th Ave., Portland, have been retained by Portland School District No. 1, 620 N.E. Halsey St., Portland, to design a nine-classroom primary school at N. Gantenbein and N. Humboldt streets. Preliminary plans are to be complete by October 13 and working drawings by December 29. The school will be planned for later expansion into complete elementary school and will include one kindergarten room, playroom, heating plant, lavatory facilities, storerooms, teachers' lounge and lunch room, and administrative unit.
WB 9-17

★PARTITIONING— **Portland, Ore.**

Award to C. M. Emeis & Co., 2519 N. Mississippi Ave., Portland, $1,425, by Corps of Engineers, Portland District, 628 Pittock Block, Portland, for temporary partitioning on the sixth floor of the Pittock Block; Inv. CIVENG-35-026-59-37. Bids opened August 25.
WB 9-17. Previous report 8-21

★OFFICE-WAREHOUSE— **Portland, Ore.**

Award to Teeples & Thatcher, 8850 S.E. Otty Road, Portland, approximately $250,000, by Western Fence & Wire Co., 1233 N.W. Lovejoy St., for construction of one-story, 73,000 sq. ft. tilt-up concrete warehouse and office building at 4025 N.W. Express St. Plans by Harry L. Percy, Jr., architect, and Sidney P. Lathrop, engineer, 1975 S.W. 5th Ave.

Glued-laminated beams and wood joists supported by steel pipe columns; concrete floor; high lift, wooden overhead doors; spur track to handle two freight cars; traveling cranes; gas unit heaters for heat and ventilation; incandescent lighting; built-up roof; office section will have asphalt tile floors, gypsum board walls, acoustical tile ceilings, fluorescent and incandescent lighting, gas-fired hot air heating and ventilating system.
WB 9-17

▲SALMON HATCHERY—Port Orford, Ore.

Four bids ranging from a low of $259,786 by T. S. & T. E. Drake, Box 186, Coquille, to a high of $269,989, were submitted to Oregon State Fish Commission, 307 State Office Bldg., Portland, for construction of the Elk River Salmon Hatchery, located approximately 9 mi. northeast of Port Orford, Curry County, on the Elk River Road. Bids opened September 12.

OTHER BIDS: John Kovtynovich, 395 Skyline Loop, Eugene, $259,895; H. Barnhart, Box 69, Medford, $261,500; George A. Moore & Associates, 923 S.W. 17th Ave., Portland, $269,989.
WB 9-13. Previous report 8-30

●SWIMMING POOL— **Salem, Ore.**

Bids will be opened 4 p.m., September 30, in office of executive director of YWCA, 768 State, Salem, for construction of a 28'x60' swimming pool wing to be added to the YWCA building at Winter and State streets in Salem. Plans with John Grimmer Groom, architect, 2390 S. 12th St., Salem.

The building housing pool will have a curtain wall facing the street, other walls will be reinforced concrete; aluminum sash; built-up roofing. Interior wall against the existing building will be plastered, other will be smooth concrete. All will be finished with a multi-colored plastic surfacing material; undulating corrugated aluminum ceiling.

Plans call for ceramic tile to line pool, deck and wainscoting. Water will be heated by a heat exchanger, which, in turn, will be heated from the present heating plant. Stainless steel items will be required. The pool will also have underwater lighting. Contract also calls for mechanical equipment, including a diatomaceous filter, finishing dressing rooms, showers, directors' room and attendants' space in existing building.
LC 9-12

HOSPITAL, NURSING HOME— **Toledo, Ore.**

Lincoln Hospital District, Dr. O. N. Callender, chairman, Bank Bldg., Toledo, will place a $485,000 bond issue on the November ballot' for financing a 20-bed hospital and also a 20-bed nursing home in Toledo.

A proposal was defeated at the May election for a new hospital and nursing home. At that time $500,000 was asked for the hospital and $190,000 for the nursing home. The new bond issue proposition has been trimmed.
DC 9-13

●COURTHOUSE— **Vale, Ore.**
(Estimated cost $500,000)

Additional description — Bids will be opened 2 p.m., October 1, by Board of County Commissioners, Malheur County, G. Y. Chester, county judge, Vale, Ore., for construction of two-story, 24,000 sq. ft. (floor space) reinforced concrete and brick veneer courthouse on site of old courthouse. Plans with Roald, Schmeer & Harrington, architects, 1104 Portland Trust Bldg., Portland. $50 deposit.

Courthouse will house all county offices; project also includes additional story, 35'x54', on existing jail building, which will be connected to new building. Class A fireproof structure; aluminum and porcelain enamel curtain walls with reflecting gray glass; granite trim; metal stud, metal lath and plaster interior partitions; considerable acoustical tile; rubber tile flooring; courtrooms to be finished in hardwood paneling and acoustical treatment; metal door frames; metal and solid wood doors; built-up roof; oil-fired steam heating; air conditioning throughout; incandescent and fluorescent lighting; blacktopping; planting lawns. Jail addition will be of reinforced concrete; includes modern jail equipment.
WB 9-12. Previous report 9-11

▲HIGH SCHOOL— **Waldport, Ore.**

Nine bids received by Lincoln County School District, Courthouse, Newport, for construction of a 30,000 sq. ft. high school on state Highway No. 34 at Mill St., adjacent to an elementary school in Waldport. Plans by Ernest Weber, architect, 144 Pacific Bldg., Salem. Bids were opened September 9.

BIDS: C. W. & Willis A. Hill, Box 682, Salem, $302,578; Industrial Building Co., Box 869, Eugene, $306,300; Robert C. Wilson, Box 47, Corvallis, $309,251; Mason & Robinson, 2004 N.E. 137th Ave., Portland, $314,695; Starr Builders, 1765 S. Main St., Lebanon, $315,555; Waldo S. Hardie & Son, 858 Pearl St., Eugene, $320,187; H. G. Carl Construction Co., Box 387, Salem, $322,648; Wood, Johnson & Rose, Inc., Box 127, Corvallis, $335,265; Vik Construction Co., Box 3516, Eugene, $337,405.
LB 9-13. Previous report 9-4

WASHINGTON

●HIGH SCHOOL ADDITIONS— **Anacortes, Wash.**

Bids to be opened 8 p.m., September 30, by Anacortes School District No. 103, 17th

and J streets, Anacortes, for construction of additions to the high school and to a grade school that will be used as a junior high school in Anacortes. Plans with Galen W. Bentley, 1130 State St., Bellingham. $35 deposit on general, $25 each on mechanical and electrical plans. Separate bids on general, mechanical and electrical contracts. Certified check, cashier's check or bid bond 5%.

Anacortes High School addition, 20th and J streets—Eight classrooms and cafeteria and kitchen; light-weight reinforced concrete with window-wall and concrete exterior, two-stories.

Junior High School—Two additions to the Central Grade School, 22nd and M streets, to be used as a junior high school. One addition with five classrooms; one-story, frame; slab-on-grade; truss and beam roof structure; siding and brick veneer on exterior. The other addition to house girls' shower and locker room; masonry and frame; glued laminated beams; 2" t&g decking; concrete blotck walls; brick veneer.

DC 9-13. Previous report 9-9

LIBRARY— Bellevue, Wash.

Approval was given by voters in Bellevue for a bond issue in amount of $90,000 for a new library to replace the present 1,600 sq. ft. space located in a basement on Main St., Bellevue. LC 9-16. Previous report 8-15

SCHOOL IMPROVEMENTS— Bellingham, Wash.

The Bellingham School District No. 501, Gordon L. Carter, superintendent, 1306 Dupoint, Bellingham, will place a bond issue in amount of $670,000 on the November 4 election ballot. The money will be used to finance an extensive enlargement and improvement program throughout the school district. ET 9-17

●BUILDING IMPROVEMENTS— Blaine, Wash.

Bids will be opened 3 p.m., P.S.T., September 25, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for new oil burner and alterations to the U.S. Border Station (Peace Arch), Peace Portal Drive, Blaine; SEA-1080. Specifications with above office. LB 9-12

SCHOOL CONSTRUCTION— Blaine, Wash.

A bond issue in amount of $175,000 was approved by voters in the Blaine School District No. 503, Vernon C. McDonald, superintendent, Blaine, to finance construction of a six-room addition to the elementary school (estimated $140,500); dressing room and shower facilities for Blaine Junior-Senior High school; automatic hot water heater and oil burner at Point Roberts Elementary School. ET 9-17. Previous report 8-23

SCHOOL CONSTRUCTION— Chelan County, Wash.

Lloyd J. Andrews, state superintendent of public instruction announced the State Legislature will be asked to provide $30,000,000 for construction of school plant facilities, including $1,852,638 in North Central Washington. Chelan County's needs call for state funds of: elementary, $77,034, and high school, $192,584; Douglas County—elementary school, $123,867, junior high school, $307,223, high school, $24,877; Grant County—elementary school, $365,267, junior high school, $909,677; Okanogan County—elementary school, $56,335, junior high school, $31,095, high school, $64,679.

The $30,000,000 will provide the state's share of the 265 projects planned for the 1959-61 biennium. Local funds will boost the amount to be spent for this purpose during the two year period to $99,908,770. LC 9-17

HIGH SCHOOL— College Place, Wash.
(Estimated cost $625,000)

College Place School District No. 250, 31 S.E. Ash St., College Place, is planning to build a 300-pupil high school. DC 9-13

SCHOOL— College Place, Wash.

Bids will be called as soon as election results have been certified on finishing classrooms at the elementary school here. Construction, which was well underway, was stopped by a legal ruling that advance procedures did not conform to legal requirements. Bids will be called by College Place School District No. 250, 31 S.E. Ash St., College Place. Plans were prepared by Thomas O. Williams, architect, 20 S.E. 3rd, College Place. General contractor on the partially finished building is Elmer Holsten, 309 E. Main, Walla Walla.

DC 9-16. Previous report 8-7

FIRE PROTECTION DISTRICT— Copalis Beach, Wash.

The creation of a fire protection district was approved by voters in Copalis Beach and Ocean City area. LC 9-16

CHURCH— Coulee Dam, Wash.

Tentative plans are still under consideration by Most Rev. Bernard J. Topel, Catholic bishop of Spokane, Chancery Bldg., S. 317 Howard St., Spokane, for a new Catholic church for Coulee Dam. Land has been already purchased for the building.

LB 9-17. Previous report 7-16

SWIMMING POOL— Edmonds, Wash.
(Estimated cost $50,000)

A bond issue in amount of $50,000 will be placed on the November 4 ballot by City Council, City Hall, Edmonds, for a swimming pool in Edmonds. Sponsor for the project is Greater Edmonds Area Service Association, Thomas A. Purton, chairman, Edmonds. Planned is a 40'x75', outdoor heated pool with dressing rooms and a filtered water plant. MH 9-12

SCHOOL BUILDINGS— Edmonds, Wash.

A special levy and a bond issue will be placed on November 4 ballot by Edmonds School District 15, Edmonds, to raise funds to assist in financing new school buildings needed during the next biennium. The levy would raise about $200,000 and the bond issue $800,000. These amounts plus a similar special levy slated for next year, would total about $1,105,000.

Surveys indicate that the district will need one new junior high school, two elementary schools in addition to the schools now existing, under construction or in planning stage. DC 9-12

SCHOOLS— Ellensburg, Wash.

Two bond issues were passed by voters in the Ellensburg School District No. 401, Edward K. Erickson, superintendent, 200 S. Sampson, Ellensburg, for 1—improvements to facilities at three schools in the district, $80,000, 2—finish and improve high school facilities, $38,000. LC 9-16

●VORTAC FACILITY, BUILDINGS, UTILITIES— Ellensburg, Wash.

Bids to be opened 10 a.m., P.S.T., September 29, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., (Box 90007) for conversion of an existing VOR facility located about three mi. southeast of Ellensburg, into a VORTAC facility; Proposals 4-59-948. Plans with Los Angeles office. Completion time 45 calendar days.

Project is divided into PHASE 1—site preparation, foundation and floor for transmitter building, antenna system, electronics check aids, underground power cable, concrete transformer pad, substation and fuel tank installation, chemical toilet and PHASE 2—transmitter building, antenna system, electronics check aids.

DM 9-17. Previous report 8-20

●PAINTING— Fairchild AFB, Wash.

Bids will be opened 10:45 a.m., September 25, by U.S. Air Force, base procurement office, Fairchild AFB, for painting exterior of 24 buildings and fence, at Fairchild Air Force Base; IFB 45-613-59-32. Specifications with above office. LL 9-16

▲MODIFY HEATING PLANT— Fairchild AFB, Wash.

Bids received by U.S. Air Force, procurement office, Fairchild AFB, for modifications of central heating plant; installation of boiler room equipment and complete boiler surveillance system including cutting, channeling and chasing, at Fairchild Air Force Base; IFB-45-613-59-22. Bids opened September 12. BIDS: Arnold & Jeffers, N. 1309 Ash, $11,317; Spokane Plumbing & Heating Co., N. 613 Monroe, $12,844; Warren, Little & Lund, W. 120 2nd, $13,290. Of Spokane. LL 9-16. Previous report 9-3

▲MODIFY ADMINISTRATION SECTION— Fairchild AFB, Wash.

Bids received by U.S. Air Force, procurement office, Fairchild AFB, for modifying Administration section, Base Supply, at Fairchild Air Force Base; IFB 45-613-59-26. Bids opened September 12. BIDS: B & G Construction Co., E. 964 13th, $4,852; A.A.A. Construction Co., N. 739 Helena, $4,964; Anton Popp, E. 2710 Garland, $5,155. All of Spokane. LL 9-16

● ■INSTALL RECEPTACLES— Geiger AFB, Wash.

Bids will be opened September 29 by U.S. Air Force, procurement office, Geiger AFB, for installation of two power receptacles in the Alter Hangar, Bldg. 1060; IFB 45-614-59-31. Specifications with above office.

Planholders: Maxwell's, Inc., E. 14 Mission; C. J. Electric, N. 6510 Wall; Spokane Electric, E. 601 Trent; Codd Electric, 227 E. Sprague; L & I Electric, N. 1321 Ash; Electric Smith, 123 E. Sprague; D. G. Quinton, 1413 N. Division; Kekne-Crabtree, E. 3801 Riverside; Brown-Johnston Co., N. 118 Lincoln; Northside Electric, 2514 N. Division; R. C. Huges, Box 216, Parkwater Station; Power City Electric, N. 920 Howard; Electric Constructors, Inc., 117 S. Post; Stack Electric, 1126 Northwest Blvd. Of Spokane. LL 9-16

▲RESIDENCE HALL—Grand Mound, Wash.

Six bids ranging from a low of $83,770 by G. Kirkebo & Son, Inc., 1410 Tacoma, to a high of $103,937, were submitted September 12 to Department of General Administration, 218 General Administration Bldg., Olympia, for construction of one-story, 4,000 sq. ft. residence hall at State School for Girls, Grand Mound. Architect is LaMonte Shorett, 1005 Securities Bldg., Seattle.

Other bids: Cascade Olympic Construction

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Co., Roue 2, Box 131, Shelton, $87,250; A. G. Homann, Box 38, Lacey, $90,500; C. E. Skinner, Box 706, Orting, $92,990; Merritt Construction Co., Fife, near Tacoma, $96,896; Frank Noel Construction Co., Morton, $103,937. DC 9-16. Previous report 9-4

SCHOOL REPAIRS, LIBRARY— Granite Falls, Wash.

Two special levies were approved by voters of Granite Falls—one for a 4-mill levy to provide funds in amount of $900 for a branch of the county library, and the other for a bond issue in amount of $15,000 to finance repairs to school buildings and for the purchase of new sites and other items, by Granite Falls School District No. 332, Everette G. Holman, superintendent, Granite Falls. LC 9-16

SCHOOL CONSTRUCTION— Granite Falls, Wash.

Bids will be called about the middle of March, 1959, by Granite Falls School District No. 332, Everett G. Holman, superintendent, Granite Falls, for various improvements including painting, applying acoustical tile and remodeling kitchen to several schools in the district.

LB 9-17. Previous report 8-8

CATHOLIC COLLEGE— Issaquah, Wash.
(Estimated cost $4,000,000)

Bids will be called in October by Sisters of Charity of the House of Providence for construction of the eight-building 200,000 sq. ft. Providence Heights College on a 240-acre site on the summit of a hill two and a half mi. north of Sunset Highway, midway between Pine Lake and Issaquah. Working drawings are nearing completion by John W. Maloney, architect, 754 Central Bldg., Seattle. College will train Catholic sisters. Present address of owners is Mount Saint Vincent's Home, 4831 35th S.W., Seattle.

Buildings will center around a chapel, and will be connected by covered walkways. Plans include an administrative unit' 16-classroom unit, library, complete dining and dormitory facilities, a 400-capacity chapel, a recreation building including gymnasium and a swimming pool. The development will have its own water and sewage disposal systems.

Chapel will have vault-type roof; full basement; 55' center height; reinforced concrete tapered fins, acting as window frames and structural supports; roof and side walls sheathed in a batten system with copper sheets; radiant heat slab floor; wall back of altar faced with brick, other walls panelled in wood. Windows of chipped stained glass, made in France, will be owner furnished.

Other buildings will be one- to four-level structures; reinforced concrete frames; steel trusses over gymnasium, some other buildings; flat built-up roofs, rigid insulation in roof, some exterior walls; brick exterior, some ceramic glazed, some natural brick; aluminum sash; terrazzo flooring, some resilient tile, some finished cement flooring; maple flooring in gymnasium, platforms; masonry and steel stud partitions, plaster finished; hot water steam heating, oil-fired boiler.

Cement concrete connecting - walkways will have aluminum poles supporting plastic roofs. Indoor, heated 24'x60' poured concrete swimming pool will be finished in ceramic tile. A large central indoor court and several smaller courts will be paved in cement concrete. Asphaltic concrete will surface extensive parking facilities and access roads.

Construction may be started in November.

PD 9-16

SCHOOL CONSTRUCTION— Kelso, Wash.
(Estimated cost $1,000,000)

General obligation bonds in amount of $700,000 were approved by voters in Kelso School District No. 403, to help finance construction of a junior high school building and an elementary school building. Plans are underway by E. L. Mills & Associates, architects, 308 S. Tacoma Ave., Tacoma.

DC 9-16. Previous report 5-23

SCHOOL BUILDINGS— Kent, Wash.

An $850,000 bond issue for the building fund, a levy to raise $150,000 for building fund and levy to $75,000 for general fund for purchase of transportation equipment, will be placed on the November 4 ballot by Kent-Meridian School District No. 415, Kent.

DC 9-12

■ ELEMENTARY SCHOOL ADDITION— Kirkland, Wash.

Planholders announced on construction of an addition to Juanita Elementary School at 13057 N.E. 100th, Kirkland. Bids will be opened 8 p.m., October 2 by Lake Washington School District No. 414, 10903 N.E. 53rd, Houghton (mailing address Box 188, Kirkland). Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Planholders—GENERAL: Venne Beauchamp Inc., Box 637, Everett; Noel Construction Co., 11014 Main, Bellevue; Sanford Wright, 2929½ Wetmore, Everett; O. B. Daniels & Son, Box 156, Mercer Island; Norge Construction Co., 5008 Admiral Way; Roxbury Construction Co., 616 Mercer; Livers Bros., 3223 E. 123rd; E. L. Ollom Construction Co., 10318 3rd Ave. N.W.; Wick Construction Co., 720 N. 35th; Herbert U. Taylor Co., 11239 Arroyo Beach Place, S.W.; Dahlgren Construction Co., 1700 21st S.; Nelson Building and Contracting Co., 1243 Rainier. Of Seattle unless noted.

MECHANICAL: Stoll & Freese Plumbing and Heating, 103 W. Main, Edmonds; Bellevue Plumbing and Heating, 10149 Main, Bellevue; Hart Plumbing and Heating, 11555 27th N.E.; Ashwell-Twist, 967 Thomas; L. G. Massart Plumbing and Heating, 4501 9th Ave. N.W.; C. F. Massart Plumbing and Heating, 4401 Wallingford; Lincoln Mechanical Contractors, 714 Adams; Navarre Plumbing and Heating, 3839 Stone Way. Of Seattle unless noted.

ELECTRICAL: Ewing Electric, 535 Main, Edmonds; McInnis Electric, 221 State, Marysville; Maier Electric, 2008 Hewitt Ave., Everett; B & B Electric Contractors, 6715 Empire Way; Hooper Electric, 215 Marion; Fadden Electric, 3926 S.W. 108th; Northwest Electric Co., 420 Yale N.; Mars Electric Co., 800 23rd S.; Carlson-Collingwood Inc., 8945 Aurora; Watts Electric, 1133 Market. Of Seattle unless noted.

PD 9-17. Previous report 9-11

▲HAWKES PRAIRIE SCHOOL— Lacey, Wash.

Sixteen bids on general, twelve bids on mechanical and seven on electrical received by North Thurston School District No. 3, Lacey, for construction of the 18-classroom 37,000 sq. ft. masonry and frame, Lydia Jane Hawkes Elementary School on a 20-acre tract in Hawkes Prairie. Plans by William Arild Johnson & Associates, architects, 3506 Broadway Ave., Everett. Bids opened September 10.

Figures include the basic plus the alternates accepted. An alternate was accepted for heating with natural gas instead of oil. GENERAL—LOW BIDS: Korsmo Bros., 5944 Lake Grove Ave., Tacoma, $261,470; A. G. Homann, Box 38, Lacey, $283,440. HI: John F. Graham Co., 1408 141st, Tacoma, $340,412. MECHANICAL — LOW BIDS: Longview Plumbing & Heating, 834 Maple, Longview, $92,532; Harold Jewell Plumbing & Heating, 6605 6th, Tacoma, $93,150. HI: Weber Plumbing & Heating, 110 N. Tacoma, Tacoma, $127,723. ELECTRICAL—LOW BIDS: Lassen Electrical Service, 111 N. Olympia, Olympia, $38,657; Carl T. Madsen, Box 1545, Tacoma, $39,750. HI: Pioneer Electric, Box 388, Longview, $44,249. One combination bid was submitted by K. T. Henderson, 1362 Colorado, Longview, $346,154 (general, mechanical and electrical).

LB 9-12. Previous report 9-6

HIGH SCHOOL— La Center, Wash.

A bond issue was approved in amount of $175,000 by voters in La Center School District No. 101, La Center, to finance construction of a new high school. The district is now awaiting a decision of an appeal which the Green Mountain School District No. 103, Hayes Route, Woodland, filed over transfer of more than $2,000,000 in assessed valuation from the Green Mountain district to the La Center district. If approved, school district will issue bonds for construction. However, the school district will go ahead with plans, so if it is approved, bids can be called immediately. LC 9-16

● HEATING CONVERSION— Laurier, Wash.

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for heating conversion to the U.S. Border Station, in Laurier; SEA-834. Specifications with above office. LB 9-16

SCHOOLS— Lester, Wash.

Voters in the Lester School District No. 195, George E. Tucker, superintendent, Lester, approved a bond issue in amount of $10,000 for maintenance and operation of schools over a two-year period. LC 9-16

SWIMMING POOL— Longview, Wash.
(Estimated cost $250,000)

Bids will be called in time for completion of construction in the late spring of 1959 on an indoor-outdoor swimming pool between Mark Morris High School and Lower Columbia Junior College in Longview. The pool will be used cooperatively by both student bodies. Plans by McGuire & Muri, architects, 231 Broadway, Tacoma. DC 9-17

SUNDAY SCHOOL ADDITION— Lynnwood, Wash.

Working drawings are nearing completion by Alfred F. Simonson, architect, 11728 Aurora Ave., Seattle, for a Sunday School addition to Maplewood Presbyterian Church, 84th W. and 196th S.W. Lynnwood. PD 9-17

SCHOOL IMPROVEMENT— Maple Valley, Wash.

Voters in the Tahoma School District No. 409, Lloyd Priebe, superintendent, Route 1, Box 276, Maple Valley, approved a bond issue for $65,000 for completing, improving and equipping schools. LC 9-16

★TEMPORARY OFFICE BUILDING— Maryhill, Wash.

Award to Thompson & Georgeson, Inc., 1924 S.E. 6th, Portland, Ore., $112,220, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, for construction of 5,700 sq. ft., one-story wood frame temporary north shore office building with concrete pier footings; 250 sq. ft. concrete block rest room; gravel-surfaced road and parking area, for John Day Lock and Dam near Maryhill, Klickitat County; CIVENG 45-164-59-8. DC 9-17. Previous report 9-12

★BOILER— Marysville, Wash.

Award to E. H. Howell, 1st and State, Marysville, $1,712, by Town Council, Town Hall, Marysville, for installation of a 375,000 B.T.U. boiler either gas or oil fired, together with addition of a weather forecaster in the town hall. Bids opened September 2.

LB 9-12. Previous report 8-29

ELEMENTARY SCHOOL—Montesano, Wash.
(Estimated cost $430,000)

Voters approved a bond issue to help finance construction of a 14-room, 33,983 sq. ft. elementary school building for Montesano School District No. 124, Grays Harbor County, 418 Spruce St., Montesano. Plans, which were prepared by Edward L. Mills, architect, 308 S. Tacoma Way, Tacoma, have been sent to State Board of Education for approval. Bids will be called after the sale of bonds.

The building will be erected on a 10-acre site bounded by Beacon, Simpson, 4th and 6th streets in Montesano.

DC 9-16. Previous report 9-5

SCHOOLS— Moses Lake, Wash.

Voters in the Moses Lake School District No. 161, 1016 Ivy Ave., Moses Lake, defeated two school levies for the building fund and the general fund. LC 9-16

■ ELEMENTARY SCHOOL— Mountlake Terrace, Wash.

Planholders announced on construction of six-building, one-story, 38,000 sq. ft. Mountlake Terrace Elementary School at 220th St. S.W. and 52nd Ave. W., Mountlake Terrace. Bids will be opened 2 p.m., September 30, by Edmonds School District No.

15 in administration offices of Edmonds Junior High School, Edmonds. Plans by Waldron & Dietz, architects, 215 8th Ave. N., Seattle.

Planholders—GENERAL: Roxbury Construction Corp., 616 Mercer; Norge Construction Co., 5008 Admiral Way; Glacier Construction Co., 5536 Coniston Road; Riley Pleas, Inc., 522 19th N.; Wick Construction Co., 720 N. 35th; Northern State Construction Co., 2833 26th W.; B. F. Turnbull, Inc., 4351 Leary Way; Herbert U. Taylor, 11239 Arroyo Beach Place S.W.; Dahlgren Construction Co., 1700 21st S.; Anderson Construction Co., 115 S. 9th, Tacoma; Sanford Wright, Clark Bldg., Everett; Venne H. Beauchamp, 2934 Broadway, Everett; Newland Construction Co., 3302 Hill, Everett. Of Seattle unless noted.

MECHANICAL: Stoll & Freeze Plumbing and Heating, 103 W. Main, Edmonds; Callahan Plumbing and Heating, 3211 Broadway, Everett; Haskell Plumbing and Heating Co., Inc., 3014 Wetmore, Everett; Glantz Supply Plumbing and Heating, 2732 Hoyt, Everett; Longview Plumbing and Heating, 834 Maple, Longview; C. F. Massart Plumbing and Heating, 4401 Wallingford, Seattle; Hart Plumbing and Heating, 11555 27th N.E., Seattle; A. H. Merchant Plumbing and Heating, 1633 12th, Seattle.

ELECTRICAL: Fadden Electric, 3926 S.W. 108th, Seattle; Hooper Electric, 215 Marion, Seattle; Wedgewood Electric, 8621 35th N.E., Seattle; Ewing Electric, Inc., 535 Main, Edmonds; Holert Electric, Inc., 2300 W. Spokane St., Seattle; McInnis Electric, Marysville.

DM 9-17. Previous report 9-5

FIRE— **Moxee, Wash.**

(Estimated damage $35,000)

Fire destroyed a hop kiln owned by Marvin McKelheer, Moxee, September 8. In addition, machinery and equipment, loose and baled hops were also damaged. MH 9-13

■PHYSICAL EDUCATION PLANT— **Nooksack, Wash.**

(Estimated cost $230,000)

Planholders announced on construction of one-story, 17,000 sq. ft. frame and masonry physical education unit addition to Nooksack Valley High School. Bids will be opened 8 p.m., September 24, by Nooksack Valley School District No. 506, in superintendent's office, Nooksack. Plans by Bryant Jr., architect, Robert Butterfield, associate, and Norman G. Aehle, architect, 208 Sager Bldg., Everett. Separate or combination bids on general, mechanical, electrical.

Structural engineer, Norman Jacobson, 11728 Aurora, Seattle; mechanical engineer, Norman Omodt, Commercial Bldg., Everett; electrical engineer, Alexander Hargis, Lloyd Bldg., Seattle.

Planholders: Pierson Construction Co., Box 632, Bellingham; Art Anderson Construction Co., Sunset Bldg., Bellingham; Nelson Construction Co., Box 417, Ferndale; Venne Beauchamp, Box 637, Everett; VanWerven & VanAndel, Lynden; Wick Construction Co., 720 N. 35th, Seattle; Sanford Wright, Box 809, Everett; Frank Damson, Route 2, Everett.

HH 9-12. Previous report 9-5

JUNIOR HIGH SCHOOL— **Oak Harbor, Wash.**

(Estimated cost $637,506)

The Oak Harbor School District No. 201, Wilbur Gilbert, superintendent, Oak Harbor, has announced the allocation of $238,036 in state funds and $201,885 in federal funds, to finance construction of a one-story, 52,586 sq. ft., 18-classroom Oak Harbor junior high school. Plans are underway by Charles Rueger & Associates, architects, 225 Tacoma Ave. S., Tacoma. Structural engineer: William Reuter, 426 Medical Arts Bldg., Seattle. Mechanical and electrical engineer: Clark M. Davis, Rocky Point, Bremerton. Date of completion for construction has been set for Fall of 1959.

Building will contain 18 classrooms, gymnasium, shower and locker rooms, kitchen facilities, administration area, library, music room.

Structural components—concrete footings, foundation; block walls with brick veneer; concrete slab floor; glued laminated beams; flat roof with steel in gymnasium; masonry and frame partitions; aluminum windows with steel alternate; porcelain enamel insulated panels. Finish construction — brick veneer, aluminum trim; exposed masonry, drywall, painted partitions; maple floor in gymnasium; other flooring of asphalt, vinyl and ceramic tile; acoustical ceilings; wood doors and cabinets. Plastic skylights, blackboards and corkboard; fluorescent and incandescent lighting.

HH 9-17. Previous report 8-28

OFFICE BUILDING ADDITION— **Olympia, Wash.**

(Estimated cost $2,000,000)

Preliminary drawings are underway by Harmon, Pray & Detrich, architects, 2000 Fifth Avenue Bldg., Seattle, for a five-story and basement, 19,000 sq. ft. (each floor), reinforced concrete office building addition, to be attached to General Administration Bldg., Olympia. Structure will have an architectural concrete facade to match existing building.

PD 9-13

FIRE STATIONS AND EQUIPMENT— **Olympia, Wash.**

Voters in South Bay, North Olympia and Rainier fire districts have approved levies to raise $10,500, $5,100 and $5,000 respectively for fire station improvements and for purchase of fire-fighting equipment. DC 9-16

JAIL— **Olympia, Wash.**

Voters have approved a one-mill special levy to finance construction of an isolation cell in the Thurston County jail in Olympia. DC 9-16

HIGH SCHOOLS— **Olympia, Wash.**

Voters in Olympia and Tumwater approved special levies to finance construction of new high schools for both cities, for Olympia School District No. 1, 116 N. Columbia St., Olympia, and for Tumwater School District No. 333, Box 98, Tumwater. LC 9-16

●BUILDING IMPROVEMENTS— **Oroville, Wash.**

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for improvements and repairs to the U.S. Border Station in Oroville; SEA-835. Specifications with above office. LB 9-16

★HEATING PLANT— **Quincy, Wash.**

Award to Wells & Wade Co., 201 S. Wenatchee Ave., Wenatchee, $1,130, by Grant County Commissioners, Courthouse, Ephrata, for a new furnace for the county engineering road shops at Quincy. Bids opened September 8. MH 9-12

BOWLING FACILITY— **Redmond, Wash.**

(Estimated cost $400,000)

Construction will start in October by M. S. Leland, contractor (c/o architect) on a 23,000 sq. ft., concrete block structure in the newly planned Sammamish Valley Shopping Center in Redmond. The building, owned by Janrick, Inc., will house bowling facilities. Plans by Thomas Albert Smith, architect, Lowman Bldg., Seattle, call for arch trusses, concrete floor, with asphalt tile and carpet covering. DM 9-17

SCHOOL SUPPLIES— **Renton, Wash.**

A bond issue in amount of $250,000 was approved by voters in the Renton School District No. 403, 1525 4th Ave. N., Renton, for maintenance, supplies and transportation expenses in the school district. LC 9-16

▲SCHOOL BUS SHOP— **Ritzville, Wash.**

All bids rejected by Ritzville Consolidated School District No. 160-67, Adams County, Ritzville, for a 61'10" long by 50'5" wide by 20' high school bus shop building to be located just east of the high school gymnasium. Bids opened September 8. Bids were rejected due to insufficient funds.

LB 9-17. Previous report 9-6

★CHURCH ADDITION— **Seattle, Wash.**

Sub contract awards have been announced by E. I. Johnson, building supervisor, Church of Jesus Christ of Latter Day Saints, second ward, on a 9,360 sq. ft. one- and two-story addition to and alterations to the existing church at 4001 44th S.W., Seattle. Plans by Clifford B. Dobson, architect, 4115 University Way, Seattle.

AWARDS: Alder's, 960 S. Main, Salt Lake City, Utah, folding partitions; L. A. Chambers, 8247 Overlake Drive W., Bellevue, lath and plaster; Ernest R. Smith, 8835 S. Park, Tacoma, plumbing, heating and ventilating; Foster-Bray Co., Inc., 2410 1st S., Seattle, roofing, metal louvres, skylight; Fentron Industries, Inc., 2801 Market, Seattle, metal sash; Zion Coperative Mercantile, Salt Lake City, Utah, backstops; Laminated Woods, Inc., 736 Northlake, Seattle, glued laminated beams, t&g decking; PBS Supply Co., 1321 Alpha, Seattle, chalk boards; United Iron Works, Inc., 7421 5th S., Seattle, miscellaneous iron; Cole Commercial Co., Inc., N. 36th and Greenwood, Seattle, metal doors and frames; Bradley-Zesbaugh, Inc., White-Henry-Stuart Bldg., Seattle, rolling doors; Ariel Davis Supply Co., Belmont, Calif., toilet partitions; Manford Lund, 3739 S.W. 100th, Seattle, masonry.

Addition—concrete slab-on-grade; glued laminated beams; wood decking; built-up roofing; brick exterior walls; metal sash; partitions of brick, pumice block, plaster asphalt tile and maple flooring; forced warm air heating, some hot water radiation.

Alterations—enlarging chapel and converting recreation area into classrooms.

DM 9-12. Previous report 6-28

★MILITARY INSTALLATIONS— **Seattle, Wash.**

Contracts for design work on military installations in the Pacific Northwest have been awarded by the U.S. Army Engineer District, Colonel R.J.B. Page, district engineer, 1519 S. Alaskan Way, Seattle, to three northwest firms.

Design of army anti-aircraft facilities for Yakima Training Center to Gray & Osborne, engineers, 228 S. 2nd, Yakima.

Design of missile master facilities at Fort Lawton, Seattle, to Wisbeck & Konzen, architects and engineers, 564 Broad St., Seattle.

Design of air force radar system gap-filler facilities at Yaak Air Force Station, Mont., to William E. Thompson, civil engineer, N. 915 Bowdish Road, Spokane.

DM 9-12

●LABORATORY ALTERATIONS— **Seattle, Wash.**

Bids will be opened 3 p.m., P.S.T., September 25, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for laboratory alterations to the Federal office building, above address; SEA-1021. Specifications with above office.

LB 9-12

MOTEL— **Seattle, Wash.**

Construction will be started later this fall by University Enterprises, General Insurance Bldg., Seattle, on the 132-unit, 300'x52' Downtowner Motel between Virginia and Lenora on 6th Ave., Seattle, for Downtowner Co., owners, c/o University Enterprises.

The three-story structure will be on concrete columns. Plans call for asphaltic concrete surfaced parking area under the building and adjacent to it, an outdoor heated swimming pool, a restaurant and a cocktail lounge.

Frame construction; flat built-up roof, batt insulation in roof; aluminum sash; masonry exterior; carpeting, vinyl tile flooring; electric heating. Provision will be made for future construction of an additional floor. PD 9-13. Previous report 7-23

58-UNIT APARTMENT— **Seattle, Wash.**

Construction of a portion of a proposed 10-building, 58-unit apartment project will be started this fall by C. R. Suess, contractor-owner, 3412 E. 115th, Seattle. Plans by McCool, Morgan & Associates, architects, 110 Eastlake Ave., Seattle, call for one-story and two-story buildings, ranging is estimated cost from $30,000 to $50,000 each, all to be located in vicinity of 37th Ave. N.E. and E. 73rd St., Seattle. PD 9-13

22-UNIT APARTMENT— **Seattle, Wash.**

Bids will be called this month by Walter Anderes, owner, for construction of a 22-unit, 13,500 sq. ft. apartment at 414, 416 Bellevue N., Seattle. Plans by McCool, Mor-

gan & Associates, architects, 110 Eastlake, Seattle, call for Marblecrete and shadow block veneer, aluminum sash, built-up roofing, automatic elevator.
PD 9-13. Previous report 6-3

● ■ HOSPITAL ADDITION— Seattle, Wash.

Bids will be opened 2 p.m., September 26, by hospital officials, in office of Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle, for construction of a 36'x85', two-story wing addition on an existing foundation at Waldo General Hospital, 15th N.E. and E. 85th, Seattle. Plans with the architects. $25 deposit. One general contract.

Flat built-up roof; batt insulation in roof; stucco exterior; steel sash; vinyl asbestos flooring; plaster partitions; connection to existing hot water heating system.

Planholders: Puget Construction Co., 1811 Bush Place; Henrik Valle Co., Box 9083; E. F. Shuck Construction Co., 535 Pontius; Jentoft & Forbes, 927 W. 46th; Cawdrey & Vemo, 3601 Fremont; Carl G. Anderson, 12362 35th N.E. Of Seattle.
PD 9-13

SWIMMING POOLS— Seattle, Wash.

Seattle Park Board is studying a long-range program to construct five more swimming pools. Financing would be by revenue bonds to be retired from pool admissions. Tentative plans call for swimming pools at Golden Gardens park, at Dahl or View Ridge playfields, at Garfield, Broadway or Miller-Meany playfields, at Brighton or Van Asselt school grounds, and at a site in the Magnolia area.
DC 9-16

● REFINISH FLOORS— Seattle, Wash.

Bids will be opened 9:30 a.m., September 29, by King County Commissioners, 402 County City Bldg., Seattle, for refinishing magnesite terrazzo floors in the surgery and parts of the autopsy room of King County Hospital Unit No. 1, 325 9th Ave., Seattle. Specifications with King County Purchasing, 606 County City Bldg., Seattle.
LB 9-16

SCHOOL BUILDING— Seattle, Wash.

At the September election, two bond issues for school construction were defeated by voters in the South Central School District No. 406, Richard C. Langton, superintendent, 4640 S. 144th St., Seattle. The bond issues were in the amounts of $129,000 and $362,000, both for building within the district.
LC 9-16

● PAINTING TERMINALS— Seattle, Wash.

Bids will be opened 10 a.m., October 2, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for painting the exterior and interior of Jefferson and Atlantic terminals for Seattle Transit System; Spec. No. P-7. Specifications with above office.
PD 9-16

● SUPERMARKET ADDITION, ALTERATIONS— Seattle, Wash.

Bid opening extended from September 15 to 2 p.m., September 23, for alterations to a supermarket and construction of an 80'x110' one-story addition to be joined to existing building at 5440 Sand Point Way, Seattle. Bids will be opened from a select list of bidders by Tradewell Stores, Inc., in office of Detlie & Peck, architects, Securities Bldg., Seattle.
LB 9-16. Previous report 9-4

RESIDENCE— Seattle, Wash.

Construction will be started soon on a two-level, 1,600 sq. ft., frame with plywood exterior, residence at 1314 E. 43rd, Seattle. Plans by Michael J. Soldano, architect, 1314 E. 43rd, Seattle, for the owner (name not released).
DM 9-16

HIGH SCHOOL ADDITION, ALTERATIONS— Seattle, Wash.

Working drawings are nearing completion by Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle, for a one-story, 71,000 sq. ft. addition, for major revamping of boiler plant, and for alterations at Lincoln High School, 4400 Interlake, Seattle, for Seattle School District No. 1, 815 4th Ave. N., Seattle.

Addition will include boys gymnasium, auditorium, music and industrial arts rooms. Alterations involve conversion of existing boys and girls gymnasium to a girls gymnasium; conversion of auditorium and library area into arts and crafts room, study hall and library; remodeling existing room facilities. Plans include modernization of boiler plant, with new fire boxes and pumps.

Auditorium will have Mosai panel exterior, suspended ceilings. Gymnasium will have Mosai panel exterior, maple flooring, mercury-vapor lighting, glass roof monitors. Music and arts building will have brick veneer exterior. Remaining description applies to both buildings.

Flat built-up roof; steel frame construction; expanded shale block partition walls; asphalt tile flooring; some mechanical ventilation; connection to existing heating system.
PD 9-17. Previous report 5-31

BUILDING ADDITION— Seattle, Wash.

Construction will start about October 1 by Allan Corp., owner-contractors, Seattle, on an 8,000 sq. ft., one-story addition to an existing office building at 3810 Stone Way, Seattle. Plans by Wisbeck & Konzen, architects and engineers, 564 Broad, Seattle, call for one-story, 8,000 sq. ft., steel roof deck, steel beams, flat built-up roofing with 1" rigid insulation, pumice block walls, concrete floor in manufacturing area, aluminum sash, acoustical tile, gas space heaters, rolling steel overhead doors, plastic skylights in existing structure.
PS 9-17

SYNAGOGUE— Seattle, Wash.
(Estimated cost $750,000)

Plans have been completed by Detlie & Peck, architects, Securities Bldg., Seattle, and Marcus B. Priteca, architect, Palomar Bldg., Seattle, and bids will be called within the next few months by Congregation Temple De Hirsch, 1424 15th Ave., Seattle, for a 1,050-seating capacity, sanctuary. The structure will be built on the corner of 16th Ave. and Pike St.
DM 9-17. Previous report 7-9

▲REMODEL COMFORT STATION— Seattle, Wash.

Nick Dubick, 3627 Findlay, Seattle, $7,199 submitted the only bid September 16 to city purchasing agent for remodeling the Park Department's comfort station at Pioneer Place on 1st Ave. and Yesler Ave., Seattle.
DM 9-17. Previous report 9-13

CONVENT— Seattle, Wash.

Bids will be called later this fall by St. Benedict's Catholic Parish for construction of a convent at Wallingford Ave. and N. 49th in Seattle to house nuns of the Domincan Order of Edmonds. Plans, by James Klontz & Associates, architects, Dexter Horton Bldg., Seattle, call for two stories and basement, 12,000 sq. ft.; pitched roof, batt type insulation; brick veneer; aluminum sash; plaster partitions; vinyl asbestos flooring; gas-fired hot water heating system with convectors and some baseboards. Separate proposals will be taken on general, mechanical and electrical work.
DM 9-17. Previous report 7-2

★TRADEWELL STORE— Seattle, Wash.

Award to Baugh Construction Co., 922 Poplar Place, Seattle, $135,890 by Tradewell Stores, Inc., 4103 2nd Ave. S., Seattle, for construction of a one-story, 130'x90' (sales area) and 60'x56' (stock area) L-shaped supermarket building on 35th Ave. N.E. between E. 82nd and E. 85th. Plans by Welden Beckett & Associates, architects, Los Angeles, Calif., with construction supervision by associate architects Rushmore & Woodman, 206 Ditty Bldg., Bellevue.

Other bids: Wick Construction Co., 720 N. 35th, $136,800; Burfitt Construction Co., 1445 W. 56th, $138,000; Hainsworth Construction Co., 3028 Western Ave., $139,592; Jentoft & Forbes, 927 W. 46th, $142,117; Gwinn Construction Co., 914 Rainier Ave., $144,753. Of Seattle.
DM 9-17. Previous report 8-30

FREEZER, STORAGE PLANT BUILDING— Snohomish, Wash.

Working drawings are underway by Frank W. Knowles, consulting engineer, 3400 16th W., Seattle, for a freezer and storage building to be constructed in east part of Snohomish for Hershey Packing Co., 220 Lincoln, Snohomish. Arthur J. Mahoney, 2207 Rainier Ave., Seattle, is structural engineer. Mechanical, electrical and refrigeration engineer is Mr. Knowles.
PD 9-13

● COUNTRY CLUB ADDITION— Spokane, Wash.
(Estimated cost $100,000)

Bids will be opened 2:30 p.m., September 23, in the office of the architect, Lewis Klaue, Old National Bank Bldg., Spokane, for additions and alterations to the Spokane Country Club, Little Spokane, Spokane. Plans with above office.
LL 9-16

● SERVICE STATION— Spokane, Wash.

Bids will be opened 1 p.m., September 22, in the office of the architect, Ralph Bishop, 1526 W. Riverside, Spokane, for construction of Husky Hi-Power service station in Spokane. Plans with the architect. $20 deposit.
LL 9-16

HOSPITAL— Tacoma, Wash.

An architect has been retained (name to be announced soon) to prepare plans for a 100-bed Lakewood General Hospital to be constructed on a site between Belmont and Bridgeport Way, on Lake Steilacoom Ave., in Lakewood near Tacoma, for Lakewood General Hospital Association, Inc., Lawrence E. Skinner, president. Schmid Construction Co., 2604 W. Lynn, Seattle, will be the contractor.
PD 9-12

▲SUPERMARKET— Tacoma, Wash.

Seven bids ranging from a low of $130,449, by Levage Construction Co., 219 S. 122nd (Parkland), Tacoma, to a high of $182,891 were submitted to C. A. Hogan, owner, 518 15th A S.E., Puyallup, for construction of a one-story, no basement, 100'x200', reinforced concrete block supermarket, at S. 40th and Portland, Tacoma. Bids opened September 10. Plans by Alfred F. Simonson, architect, 11728 Aurora Ave., Seattle.

OTHER BIDS: R. L. Absher Construction Co., 1109 25th S.E., Puyallup, $147,500; Art Nilson, 20 1st St. S.E., Auburn, $148,500; Jardeen Bros. Building Contractors, 1240 S. Sprague, Tacoma, $156,000; Potucek Construction Co., 6424 S. 44th, Tacoma, $139,800; Anderson Construction Co., 115 S. 9th, Tacoma, $168,700; Purvis Construction Co., 1525 Bay St., Tacoma, $182,891. Award will be made about mid-September.
PD 9-12. Previous report 9-6

SCHOOL CONSTRUCTION— Tacoma, Wash.

A bond issue in the amount of $700,000 was defeated by voters September 9 in the Colver Park School District No. 400, 5214 Steilacoom Blvd., Tacoma, to finance new school construction within the district and site acquisition.
LC 9-16

▲FIRE STATION ALTERATION— Tacoma, Wash.

Six bids ranging from a low of $29,780 by G. Kirkebo & Son, Inc., 1410 Mountain View, Tacoma, to a high of $49,041 were received September 15 by City Clerk, 305 City Hall, Tacoma for alterations to Fire Station No. 3, N. 13th and J streets. Mechanical engineer is David M. Hopkins, and electrical Walter S. Gordon, 620 S. 5th, Tacoma.

Other bids—Jardeen Bros., 1240 S. Sprague, $30,894; Woodard Construction Co., 2538 S. Steele, $31,000; Freigang Construction Co., 7424 Bridgeport Way, $31,483; Bonnell Construction Co., 706½ Commerce, $31,489; Korsmo Bros., 5944 Lake Grove S.W., $49,041. All of Tacoma.
LB 9-16. Previous report 9-11

FIRE STATION-LIBRARY— Tacoma, Wash.

Bids will be called in October on construction of combination fire station-library at S. 56th and Warner, Tacoma. Library will be 90'x60' and fire station 50'x43'. Both buildings will have brick exterior, glued laminated beams. Architect is E. L. Mills & Associates, 308 S. Tacoma, Tacoma.
DC 9-17

TEACHERS' COTTAGES— Taholah, Wash.

Voters in the Taholah School District No. 77, Taholah, approved bonds in September to finance construction of a teachers' cottages and a bus garage.
LC 9-16

CAFE— Vancouver, Wash.
(Estimated cost $135,000 to $150,000)
Construction planned by Leo Jaroff, manager, Vancouver, for reconstructing the Zutz Cafe, 106 E. 7th St., Vancouver. The cafe was destroyed by fire. LC 9-13

OIL REFINERY— Vancouver, Wash.
(Estimated cost, initial phase, $2,000,000)
Construction has started by Fluor Corp., engineers and contractors, Los Angeles, on the initial phase of a petroleum refinery on 110-acre tract in West Vancouver on Fruit Valley Road near Vancouver city limits. The owner is Pacific Cooperatives, Charles Baker, general manager, Box 1004, Walla Walla. The ultimate cost is estimated at $15,000,000.
The first phase will include a tank farm with storage capacity of 14,000,000 gal. of petroleum, a new dock west of the Port of Vancouver dock, a 1½-mi. pipeline to carry both crude and finished products to and from the river, an office and maintenance building, truck loading racks, and blending tanks and equipment. The tank farm will include double-decked, floating roof tanks for storage of all evaporative products; the Columbia River dock will have facilities for unloading tankers and loading barges, and will handle one tanker and one river barge at a time. These facilities will provide a distribution and storage center for the petroleum products until the refinery is completed. Processing equipment will not be installed until petroleum import quotas have been arranged, probably within one to two years. WB 9-13

★FIRE STATION— Wenas, Wash.
Award to Earl Davis, Selah, $7,564, by Fire District No. 2, City Hall, Selah, for construction of a two-truck fire station in the north end of Wenas, Yakima County. Plans by Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima. Bids opened September 12. ONLY OTHER BIDS: Le Roy Morrow, 421 S. 50th Ave., Yakima, $8,480; Hugh Templeton, 99th Ave. and Fruitvale Bldg., Yakima, $8,974.
IG 9-17. Previous report 9-4

★AIRPORT TERMINAL BUILDING— Wenatchee, Wash.
Award to Lowry Construction Co., Box 1013, Wenatchee, $98,777, by City Council, City Hall, Wenatchee, for construction of a 4,800 sq. ft., one-story administration and terminal building at Pangborn Field, the municipal airport, in Wenatchee. Plans by Newhall, Peach & Fraley, architects, 111 Yakima Ave., Wenatchee.
Semi-circular arch central section; two-flat-roofed wings. Total roof area is 8,265 sq. ft. including covered entrance way and walkway toward planes. Structures will be approximately 140' long and will vary in width from 36' to 44'. There will be small basement area for heating plant only.
Concrete footings and foundation; 136'x 40' block walls; concrete slab floors; timber or steel supporting structure; flat roof; frame partitions; aluminum sash; painted exterior and interior wall finish and trim; plaster with gypsum lath partitions; fir and linotile flooring; exposed wood ceiling; Styrofoam insulation in exterior walls and roof; concentric ring incandescent lighting; hot water heating system, oil fired.
LC 9-13. Previous report 8-8

■ P U D WAREHOUSE— Wenatchee, Wash.
Planholders announced for construction of a 90'x200' permanent warehouse on the west bank of the Columbia River about 1,100' south of the service bay of the Rocky Reach Hydroelectric Power Project powerhouse in Chelan County. Bids will be opened 2 p.m., September 29, by Chelan Public Utility District No. 1, Kirby Billingsley, manager, 327 N. Wenatchee Ave., Wenatchee. Plans with Stone and Webster Engineering Corp., consulting engineers, 707 Lloyd Bldg., Seattle, or at the project site, Box 158, Wenatchee.
Planholders: Wilson & Wiesner Contractors, Inc., Box 138; Vandivort Construction Co., Box 1647; Snitily Bros. Construction Co., Box 671; Ellsworth L. Ollom, 603 153rd St. S.W., Seattle; T. M. Carstensen Co., Room 205, Alaska Trade Bldg., Seattle; H. H. Robertson Co., White-Henry-Stuart Bldg., Seattle; Tullar Power Construction, Inc., & Associates, Box 1036; Armstrong & Armstrong, Box 59; J. N. Vail Co., Box 1044; Hills Construction Co., Box 1522, Yakima; Northern Enterprises, Inc., 12556 Bothell Way, Seattle; Thompson & Georgeson, Inc., 1924 S.E. 6th Ave., Portland, Ore.; Jensen-Rasmussen & Co., Box 89, Sunnyside.
Pybus Steel Co., 3 Orondo St.; Leckenby Structural Steel Co., 2745 11th S.W., Seattle; Star Iron & Steel Co., 435 E. 11th St., Tacoma; Soule' Steel Co., 4100 W. Marginal Way, Seattle; Pacific Car & Foundry Co., 120 W. Hudson, Seattle; Bethlehem Pacific Coast Steel Corp., Box 3827, Seattle; Armco Drainage and Metal Products, Inc., Box 751, Federal Station, Portland, Ore.; United Concrete Pipe Corp., Box 467, Auburn; Plasteel Products Corp., M. M. Mossman, agent, 801 Hoge Bldg., Seattle. Of Wenatchee except as noted. PD 9-16. Previous report 8-29

FIRE EQUIPMENT— Westport, Wash.
Voters in Westport approved the purchase of new fire fighting equipment, Tuesday.
LC 9-16

CLASSROOM ADDITION— Yakima, Wash.
Cowan & Paddock, A.I.A., architects, Larson Bldg., Yakima, have been retained to prepare plans for a five-classroom addition to the West Valley High School and a four-classroom addition to the Mountain View School, and John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd St., Yakima, have been retained to prepare plans for a six-room addition to Summitview Elementary School, by West Valley School District No. 208, Harold Griffith, superintendent, West Valley High School, Route 4, Yakima. IG 9-17. Previous report 2-14

★MAUSOLEUM, CREMATORY— Yakima, Wash.
Award to Gilbert H. Moen, 516 S. 5th Ave., Yakima, $71,709, by Terrace Heights Memorial Park Association, Miller Bldg., Yakima, for construction of 87'x67' mausoleum at Terrace Heights Cemetery, Yakima. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd, Yakima. The above figure does not include the equipment for the crematory that will be installed later.
IG 9-17. Previous report 8-28

IDAHO

★ELEMENTARY SCHOOL ADDITION— Boise, Idaho
Award to Fulton Construction Co., 1708 Main St., Boise, $64,254, by Independent School District, 1207 Fort St., Boise, for construction of an addition to Kolesch Elementary School on Story Ave. in Boise. Plans by Dropping, Kelley & Finch, architects, 2504 Kootenai Ave., Boise.
DM 9-12. Previous report 9-6

REMODEL BANK— Boise, Idaho
Preliminary plans underway by Hummel, Hummel & Jones, architects, 1324 Idaho St., Boise, for remodeling of offices, installation of air conditioning, new glass front to the First Federal Savings & Loan Co. main branch, at 900 Jefferson, Boise. GH 9-13

EMPLOYMENT SECURITY AGENCY BUILDING— Coeur d'Alene, Idaho
(Estimated cost $75,000)
Plans are underway by Ernest M. Hicks, architect, 316 Elder Bldg., Coeur d'Alene, for a 3,000 sq. ft., 40'x80', one-story, masonry building to house Employment Security Agency. Bids will be called at a later date by Idaho Employment Security Agency, H. F. Garrett, director, 305 Main St., Boise. The new structure will be erected on a 100'x100' lot on the southeast corner of the intersection of 4th and Garden streets in Coeur d'Alene.
Completion is planned for March, 1959. Plans call for vinyl asbestos tile over wood or cement flooring; built-up roofing; hot water heating. DM 9-13. Previous report 8-26

●■ OFFICE BUILDING— Coeur d'Alene, Idaho
Bid opening extended from September 17 to 4 p.m., September 23, for construction of an L-shaped, 79'x161' professional office building on Mullan Street between 11th and 12th streets in Coeur d'Alene, for Medical Clinic, Inc., of Coeur d'Alene (Dr. E. R. W. Fox, Wiggett Bldg., Dr. William T. Wood, 118th 7th and Dr. W. W. Wilson, Wiggett Bldg.) owners. Bids will be opened in the office of the architects, McClure & Adkison, 707 Sherwood Bldg., Spokane, Wash.
Planholders: Warner & Brown, N. 2904 Madelia, Spokane, Wash.; Walter Varnum, Box 989, Coeur d'Alene, Idaho; William Hilton Co., E. 41 Gray, Spokane; Kenneth Custis, W. 1222 21st, Spokane; S. G. Moring, 411 W. Second, Spokane; E. R. Haynes, W. 2028 Sinto, Spokane; Bernt Stolass, Hayden Lake.
Plans call for one floor and basement; stucco and structural glazed tile; glued laminated beams; vinyl flooring; hot water heating with natural gas.
LL 9-13. Previous report 9-11

WAREHOUSE— Grangeville, Idaho
Bids will be called in the near future by directors of Union Warehouse and Supply Cooperative, Grangeville (Warren Parks, manager) on rebuilding the grain storage warehouse at Fenn that was recently destroyed by fire. Proposals will be accepted on three types of structures—crib, steel and concrete. DC 9-17. Previous report 9-10

ARMORY— Jerome, Idaho
(Estimated cost $83,000)
Funds in the amount of $52,000 were approved by the U.S. Senate to finance construction of an 8,600 sq. ft. new National Guard armory in Jerome, for Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise. Working drawings are underway by Wayland & Cline, architects, 624 Idaho Bldg., Boise. The State Legislature has already appropriated $10,509 for the project. GH 9-13

●BUILDING ALTERATIONS— Lewiston, Idaho
Bids will be opened 3 p.m., P.S.T., September 25, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for screenline alterations and new gas burner to the U.S. Post Office, F and 12th sts., Lewiston; SEA-804. Specifications with above office. LB 9-16

●ELEMENTARY SCHOOL, GYMNASIUM— Melba, Idaho
Bids will be opened for the second time, October 7, by Melba School District, Ernest Smith, chairman of the board, Melba, for construction of a six-room elementary school, and high school gymnasium, in Melba. Plans with Charles W. Johnston, A.I.A., and Robert J. Smith, associates, 13 N. 8th, Payette. $25 deposit. Bids will not be called for the remodeling of the high school. Bids were previously opened on July 9, and subsequently rejected. Low bid at that time as previously reported was Fulton Construction Co., 1709 Main, Boise, for $256,700. LB 9-17. Previous report 9-3

LIBRARY— Montpelier, Idaho
Voters approved a ½ mill tax levy in Montpelier, September 5, to raise funds for improvements to the library in Montpelier. The levy will be used to match federal funds for the library work. LC 9-13

★DEGREASER ROOM— Mountain Home AFB, Idaho
Award to Nottingham Construction Co., Box 1545, Boise, $3,815, by U.S. Air Force, procurement office, Mountain Home AFB, for constructing a degreaser room in Bldg. 1326, Mountain Home Air Force Base; IFB-10-603-59-10. Bid opened August 28.
LB 9-12. Previous report 8-16

SENIOR HIGH SCHOOL— Payette, Idaho
The Payette school board announced that they will place a $360,000 bond issue on the October 3 ballot to provide funds for construction of a new high school in Payette. A site on First Ave. N. is under consideration by the school board for future construction. LC 9-16. Previous report 8-27

Preston, Idaho

ARMORY—

Government funds have ben approved in amount of $57,000 to finance construction of a National Guard armory in Preston, for Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise. Preliminary plans underway by C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls.

GH 9-12. Previous report 7-16

JUNIOR-SENIOR HIGH SCHOOL—
Rathdrum, Idaho

A fifth bond election in three years will be held October 29 by Lakeland School District to finance construction of a 12-classroom junior-senior high school building. Bonds will be in amount of $480,000. The proposed school would be located two mi. northeast of Rathdrum on Highway 41. President of the Lakeland Citizens Committee, who is sponsoring the election, is Richard K. Reynolds, Spirit Lake. DC 9-17

SCHOOLS— Sandpoint, Idaho

A bond issue for $1,390,000 will be placed on the ballot October 14 by Bonner County Class A School District No. 82, 204 Main St., Sandpoint. The issue will finance construction of Priest River Grade School, 18 rooms, $300,000—Priest Lake area school, four rooms, $90,000—Idaho Hill, two additional rooms and remodeling, $115,000 — Washington School, Sandpoint, eight rooms remodeled and adjustment classroom, $110,000—Senior High School, six additional rooms, $80,000—Farmin and Lincoln school in Sandpoint, consolidated into 20-room unit, $320,000—Sagle School improvements, $40,000—administration office building, $25,000—Kootenai, four-room school replacing present old building, $50,000—Clark Four, four additional rooms, $50,000—sites and development, $35,000—ten per cent of total to cover equipment, $121,500. DC 9-17. Previous report 8-5

NATIONAL GUARD ARMORY—
Twin Falls, Idaho

Funds in the amount of $90,000 have been approved by the U.S. Senate, to finance construction of a 15,000 sq. ft. new National Guard armory in Twin Falls, for local National Guard units and for civic purposes, according to Idaho National Guard, Major James S. Brooks, maintenance engineer, 801 Reserve, Boise. Funds already appropriated for building project by state Legislature amount to $33,205. GH 9-12

MONTANA

● PAINTING— Anaconda, Mont.

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, room 126, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for exterior painting to the U.S. Post Office in Anaconda; SEA-1229. Specifications with above office.

LB 9-16

★DORMITORIES—
Cut Bank, Havre, Opheim AFS, Mont.

Award to Gens Construction Co., Box 546, Great Falls, $75,000, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for Sched. C involving construction of one 28-man dormitory at Opheim AFS; ENG-45-108-58-52. Award was previously made on Sched. A and B, dormitories at Cut Bank and Havre, to J. E. Beaulaurier & Sons, 714 25th N., Great Falls, $143,383.

DM 9-12. Previous report 7-30

★MEN'S RESIDENCE HALL—Dillon, Mont.

Awards announced by State Board of Education, Capitol Bldg., Helena, for construction of men's residence hall for Western Montana College of Education in Dillon. Plans by Charles A. Kestle, A.I.A., architects, 2501-A Harrison Ave., Butte. AWARDS: D. P. Ibey Construction Co., Box 567, Dillon, $182,500 (general); Budd Plumbing and Heating Co., 317 E. Mendenhall, Butte, $65,600 (mechanical); Davis Electric Co., 21 E. Sebree, Dillon, $15,139 (electrical).

DC 9-12. Previous report 9-9

PORT STATIONS— Glacier, Mont.

A low bid was submitted by Canoy Construction Co., 1304 2nd Ave. N.W., Great Falls, $43,846, to Park Headquarters, Glacier National Park, West Glacier, for building five comfort stations on St. Mary Campground in Glacier National Park. 2ND LOW: Tuscher & Bates, Somers, (no amount given).

LC 9-12

PARKING GARAGE— Great Falls, Mont.
(Estimated cost $330,000)

Negotiations are underway by Great Falls Trades Promotion Association, Tom C. Mather, secretary-treasurer, 14 4th N., Great Falls, for purchase of a downtown location for a proposed 17-level mechanical parking garage. Plans which have been started by McIver, Hess & Haugsjaa, architects, Strain Bldg., Great Falls, call for space for 204 cars.

DC 9-12

PRO-ARTS BUILDING—Great Falls, Mont.
(Estimated cost $50,000)

Bids will be called about October 1 for a Pro-Arts Building to be constructed at 2507 7th Ave. S., Great Falls. The structure will house the architectural firm of Holland and Lund, who now have offices in the Electric Bldg., and a dentist and a doctor. Plans by the above architects call for a concrete hyperbolic paraboloid roof.

DC 9-13

● MORTUARY— Great Falls, Mont.

Bids will be opened 11 a.m., September 26, in the office of the architects, Shanley, Shanley & Anderson, Barber-Lydiard Bldg., Great Falls, for construction of a 111'x117', face brick, mortuary building for T. F. O'-Connor Co., owners. Plans with the architects. Three separate contracts for general, mechanical and electrical. 5% bid bond.

Plans call for a chapel, casket storage, lobby, office, arrangements, three slumber rooms, furnace room, nightman, employees, preparation room, dressing room. Face brick (Norman) exterior, some porcelain enamel panels; one glass block wall in chapel (40% ceramic and 60% clear glass); mahogany paneling in chapel; built-up asphalt and gravel roof; unit heaters; fluorescent and incandescent lighting; plaster, glazed tile; parking area and landscaping.

Proposals must be submitted in sealed opaque envelopes, addressed to the Owners, c/o Shanley, Shanley and Anderson. LL 9-13

▲HOSPITAL— Great Falls, Mont.

Bids received by Cascade County Commissioners, Courthouse, Great Falls, for construction of one-story, 90,000 sq. ft. concrete, convalescent hospital on site in Highland Park, south of Great Falls. Architect is Knight & van Teylingen, Medical Arts Bldg., Great Falls. LOW—GENERAL: Palmer Construction Co., 1324 Central W., Great Falls, $1,265,687. MECHANICAL: Mehl Plumbing and Heating, 815 Central, Great Falls, $259,-684. ELECTRICAL: Rowe Electric Co., 410 1st S., Great Falls, $117,186.

Other bids—GENERAL: Otto J. Eichhof & Sons, Crookston, Minn., $1,278,704; Mel Buck Construction Co., Cascade, Mont., $1,320,000; C. B. Lauch Construction Co., Box 724, Great Falls, $1,330,000; Sletten Construction Co., Box 1188, Great Falls, $1,368,-000, Peter Kiewit Sons' Co., Inc., Box 1777, Longview, Wash., $1,390,000; Leigland Construction Co., Box 1862, Great Falls, $1,340,-947. MECHANICAL: C. W. Schmid Plumbing and Heating, Hamilton, Mont., $311,857. ELECTRICAL: Goggans & Pennie, 1106 Central, Great Falls, $119,353; Cascade Electric, Box 2092, Great Falls $121,050; Allen Electric, 331 N. Last Chance Gulch, Helena, $127,652; Rainbow Electric, 2220 River Drive, Great Falls, $147,675.

DC 9-16. Previous report 9-6

ANIMAL HOUSE— Hamilton, Mont.
(Estimated cost $150,000)

The Montana congressional delegation in Washington, D.C., has launched a sustained drive to secure an animal house at the United States Rocky Mountain animal disease research laboratory in Hamilton.

MH 9-17

● TELEPHONE BUILDING— Havre, Mont.

Bids to be opened September 30 by Mountain States Telephone & Telegraph Co., 319 2nd, Havre, for a new building. Plans with above office.

DC 9-17

● REMODELING, REPAIRS—
Helena, Mont.

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, Federal Office Bldg., Seattle, Wash., for remodeling and repairs to the Federal Office Bldg., Park Ave. and Lawrence sts., Helena; SEA-1160. Specifications with above office.

LB 9-16

● MASONRY REPAIRS—Lewistown, Mont.

Bids will be opened 3 p.m., P.S.T., September 25, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for masonry repairs to the U.S. Post Office, 3rd Ave. at Broadway, in Lewistown; SEA-1170. Specifications with above office.

LB 9-12

★BOILER ALTERATIONS—
Malmstrom AFB, Mont.

Award to Teton Plumbing & Heating, 30 Main Avenue N., Choteau, $4,190, by procurement office, Building T 1308, Malmstrom Air Force Base, for mechanical alterations in various boiler plants at the base. Bids opened August 25.

CA 9-16. Previous report 8-9

★INSTALL SIDING—
Malmstrom AFB, Mont.

Award to Canoy Construction Co., Box 736, Great Falls, $9,855, by U.S. Air Force, procurement office, Malmstrom AFB, for installation of siding on five buildings at Malmstrom AFB.

LB 9-17. Previous report 8-9

★EDUCATION BUILDING— Sidney, Mont.

Award to B. D. Ness Construction Co., Box 151, Sidney, $64,074 ($54,115 basic plus alternate), by Pella Lutheran Church, 418 W. Main, Sidney, for construction of a brick and frame, one-story with basement education unit addition to the existing church. Plans by Nordquist & Sundell, architects, 1233 Airport Road, Billings.

Wood windows; incandescent lighting; warm air heat with gas fuel; concrete basement and foundations; wood floors; frame roof with asphalt shingles.

LB 9-17. Previous report 9-9

● SCHOOL ADDITION, ALTERATIONS—
Ulm, Mont.

Bids to be opened 8 p.m., September 26, by School District No. 85, Cascade County, in the existing school building at Ulm, on construction of an addition and alterations to the school. Plans with Davidson & Kuhr, architects, 104 4th N., Great Falls. $15 deposit. Certified check or bid bond 5%.

DC 9-17

ALASKA

HOSPITAL ADDITION— Adak, Alaska

Bids held under advisement until later this month by 17th Naval District, office of resident officer in charge of construction, district works office, Bldg. 250-256, 13th Naval District, Seattle, for constructing 28'x50' extension to existing station hospital, alterations to 28'x105' wing, furnishing equipment, U.S. Naval Station, Adak; Spec. No. 2431/57. Low bidder as previously reported is Raber & Kief, 5939 4th Ave., Seattle, Wash., $227,950.

LB 9-12. Previous report 8-26

● REMODELING, REPAIRS—
Anchorage, Alaska

Bids will be opened 3 p.m., P.S.T., September 30, by General Services Administration, Federal Office Bldg., 900 1st Ave., Seattle, Wash., for remodeling and repairs to the U.S. Post Office, 3rd and 4th Ave., and to the Courthouse, F and G sts., both in Anchorage; SEA-1144. Specifications with above office.

LB 9-16

■ STORE, CAFETERIA—
Elmendorf AFB, Alaska

Planholders announced for Sched. A—con-

struction of exchange sales store and cafeteria. Sched. B—improvements to parking area and grounds at Elmendorf Air Force Base; ENG-95-507-59-22. Bids will be opened 2 p.m., A.S.T., September 23, by Corps of Engineers, Box 1288, Anchorage. An Addendum No. 1 has been issued by the Corps of Engineers, making changes in the bidding documents.

Planholders—GENERAL: E. J. Bartells Co., 1212 6th Ave. S.; Chris Berg, Inc., Contractors, 2730 Westlake Ave. N.; Patti-MacDonald Construction Co., Spring Apartment Hotel; Baker & Ford Co., Box 626, Bellingham; Gaasland Co., Inc., Box 946, Bellingham; F. T. Crowe Co., 329 2nd Ave. W.; J. B. Warrack Co., 400 2nd Ave. W.; Lease Co., 1301 N. 35th St.; H. H. Robertson & Co., White-Henry-Stuart Bldg.; E. B. Kaiser Co., Box 47, Glenview, Ill.; Northern Enterprises, 12556 Bothell Way; Van Vetter, Inc., 2130 Harbor Ave. S.W.; McLaughlin, Inc., Box 1834, Great Falls, Mont.; The Trane Co., 3010 1st Ave.; W. L. Reid Co., 3102 S.W. 87th Ave., Portland, Ore.; Fenestra, Inc., 110 Stacy St.; W. R. Grasle Co., 437 N.W. 16th Ave., Portland, Ore.; O. B. Williams Co., 1939 1st Ave. S.; C & R Builders, Inc., 1619 8th Ave. N.; Puget Sound Fabricators, 3670 E. Marginal Way. Of Seattle unless noted.

Planholders—Others: City Electric of Anchorage, 2121 13th Ave. S.W.; Lent's, Inc., 279 4th St., Bremerton, Wash.; Graybar Electric Co., Inc., Box 3127; Durant Insulated Pipe Co., Box 88, Palo Alto, Calif.; The Coast Sash & Door Co., 1002 E. F St., Tacoma, Wash.; Alaskan Plumbing Supply Co., Inc., 907 Arctic Bldg.; Urban Plumbing & Heating Co., 2904 S.W. 1st Ave., Portland, Ore.; Star Iron & Steel Co., 435 E. 11th St., Tacoma; Bethlehem Pacific Coast Steel Corp., 8501 E. Marginal Way; United Concrete Pipe Corp., Box 467, Auburn; Vinnell Steel, Box 308, Irvindale, Calif.; Associated Asbestos, Inc., 4301 23rd Ave. W.; Hart Plumbing & Heating Co., 11555 27th N.E.; Inland Steel Products Co., 7738 32nd N.W.; Weldit Tank & Steel Co., 1806 Cornwall Ave., Bellingham, Wash.; Barwell Folding Doors, Inc., 98 Commercial St., Brooklyn, N.Y.; Franks Cabinet Shop, 360 W. Nickerson St.; Thorgaard Plumbing & Heating Co., 1109 N. 36th St.; C & C Woodcraft, 2319 W. Spokane St.; Palmer Supply Co., 222 Westlake Ave. N. Of Seattle unless noted.

Planholders—Others: Refrigeration Engineering Co., 1718 Broadway; United Fabricators, Inc., 1204 Westlake N.; Grinnell Co., 2101 Elliott Ave.; American Plumbing & S. S. Co., 1908 Pacific Ave., Tacoma; Viking Automatic Sprinkler Co., 1120 8th S.; Wyatt & Kipper Metal Fabricators, 3214 16th Ave. S.W.; Western Aluminum Corp., 3318 4th Ave. S.; Leckenby Structural Steel Co., 2745 11th Ave. S.W.; Automatic Sprinkler Co., 610 W. Idaho St.; Mexico Refractory Co., 3437 E. Marginal Way; H. E. Mills Electric Co., 1511 Cornwall Ave., Bellingham; Atlas Automatic Sprinkler Co., Box 1444, Greenwood Sta.; Northwest Steel Rolling Mills, 4315 9th Ave. N.W.; Waterfront Ships Service, Pier 59; Century Metal Works, 7126 W. Marginal Way; Elmer Moody Woodwork, 3635 16th Ave. W.; Pacific Car & Foundry Co., 120 W. Hudson St.; Siedelhuber Iron & Bronze Works, 7707 7th Ave. S.; Builders Hardware & Supply, 227 9th Ave. N. Of Seattle unless noted.

LB 9-12. Previous report 8-26

■ **SCHOOL ADDITION— Fairbanks, Alaska**

Planholders announced on construction of an addition to the North Pole School, Fairbanks. Bids will be opened 2 p.m., September 22, by Housing and Home Finance Agency in the office of the architects, McEntire & White, 201 Chena Bldg., Fairbanks.

Planholders: C & R Builders, 1619 8th N., Seattle, Wash.; E. B. Davis, Box 225, North Pole Alaska; Whitney Bros., Box 926; Arctic Builders, Box 305; Pitcher Construction Co., Box 613; Burgess Construction Co., Box 652; Pacific Construction Co., Box 1051; Consolidated Construction Co., Box 1584; Fleshman & Behmler, Box 1383; Fairbanks Builders, Box 1083; Nordin Construction Co., Box 1771. Of Fairbanks unless noted.

DM 9-17. Previous report 9-10

PULP MILL— Juneau, Alaska

A five-year extension of time has been granted by the U.S. Forest Service to Georgia-Pacific Alaska Corp., a subsidiary of the Georgia - Pacific Plywood Co., Equitable Bldg., Portland, on its preliminary contract for the sale of timber in the Tongass National Forest. Most of the timber is on Admiralty Island near Juneau. The original contract called for start of cutting in 1958, and operation of the proposed mill beginning in 1961. The 500-acre area contains 7½ billion board feet of timber. No site has been chosen for the mill, but studies are continuing by the company's Timber Div.

WB 9-13. Previous report 3-28-56

● **DOOR REPAIRS— Ladd AFB, Alaska**

Bid opening extended from September 19 to 2 p.m., A.S.T., September 23, for weather stripping large sliding doors in Hangar No. 1, Bldg. 1557, at Ladd Air Force Base; IFB 65-500-59-39. Bids will be received by U.S. Air Force, base procurement office, Ladd AFB.

LB 9-16. Previous report 9-10

● **SHOP REPAIRS— Ladd AFB, Alaska**

Bids will be opened 2 p.m., A.S.T., September 25 (extended from 10 a.m.,) by U.S. Air Force, base procurement office, Ladd AFB, for repairs to heavy equipment shop "A," Bldg. No. T-1559, Ladd Air Force Base; IFB 65-500-59-41. Specifications with above office.

LB 9-17

Specifications with above office. 20% bid bond.

LB 9-17. Previous report 9-16

● **SURFACING— Coos County, Ore.**

Bids to be opened 10 a.m., September 26, by Bureau of Public Roads, 824 Morgan Bldg., Portland, for constructing 5.098 mi. surfacing on Middle Creek Road, Bureau of Land Management-Coos Bay District, Coos County, Ore.; TARP BLM 621-A2. Plans with above office.

Quantities: 17,500 c.y. excavation; 32,400 c.y. special subbase; 17,800 ton crushed aggregate; 3,000 c.y. stockpiled material; 1,000 c.y. loose riprap.

DM 9-16

● **OILING— Corvallis, Ore.**

Bids will be opened 2 p.m., September 24, by Oregon State Board of Higher Education, room 3, Benton Hall, Oregon State College, Corvallis, for oiling roads and parking areas on the campus. Specifications with physical plant director, above address.

LC 9-12

● **BANK PROTECTION— Crabtree, Ore.**

Bid opening extended from September 18 to 2 p.m., P.S.T., September 25, for repair and construction of bank protection work at the Ketcham (Part A), Pape (B), Gunderson (C) and Dewall (D) locations on the South Santiam River, all near Crabtree, Linn County; CIVENG-35-026-59-44. Bids will be received by Corps of Engineers, Portland District, 628 Pittock Bldg., Portland.

LB 9-16. Previous report 9-11

● **GRADING— Deschutes County, Ore.**

Bids to be opened 10 a.m., September 30, by Bureau of Public Roads, 824 Morgan Bldg., Portland, for grading 5.469 mi. on Cascade Lakes Highway, Deschutes National Forest, Deschutes County, Ore.; FHP 46-F. Plans with above office.

Quantities: 52 acre clearing, grubbing; 244,000 c.y. unclassified excavation; 46,000 sta. yd. special subbase; 2,570' culvert pipe.

DM 9-13

ROAD CONSTRUCTION— Horton, Ore.

Bids will be called soon by Civil Aeronautics Administration, procurement branch 5651 W. Manchester Ave., (Box 90007) Los Angeles, Calif., for construction 760' of new road, at the VHF/UHF Air to Ground Communications Facility at Horton (Prairie Mountain), Ore.; Proposal No. 4-59-968. Work includes relocating gate; ditch at side of road; moving culvert; blade road; widen two curves; reroute drain at subject facility.

LB 9-12

★ **STREET IMPROVEMENT— Klamath Falls, Ore.**

Award to Asphalt Paving Co., Box 547, Klamath Falls, $9,686, by City Council, City Hall, Klamath Falls, for improvement of Van Ness Ave., et al, Eldorado Addition, Improvement Unit No. 143.

ZZ 9-12. Previous report 8-29

★ **PUMPING PLANTS—Klamath Falls, Ore.**

Award to George R. Stacy, Ore. Ltd., Box 853, Klamath Falls, $28,355, by Bureau of Reclamation, Klamath Falls, for construction of Coppock Bay pumping plants U and V; and modifications to M canal and 100-D-1 drain; 200C-393. Bids were opened September 3.

LB 9-16

★ **WATER MAIN— Malin, Ore.**

Award to Cascade Boiler Erectors, Inc., Box 1125, Eugene, and Industrial Mechanical Contractors, 5801 6th Ave. S., Seattle, Wash., (joint venture), $22,322, by City Council, City Hall, Malin, for constructing a new water main, connecting it to existing system and removing and reinstalling existing 100,000-gal. steel storage tank at Malin.

ZZ 9-17. Previous report 9-12

● **INSTALL WATER LINE— Medford, Ore.**

Bids will be opened 4 p.m., September 22, by Elk City Water District, Medford, for installing a water line along Bursell Road in Jackson County, Medford. Plans and specifications with Sam Taylor, director, Elk Lumber Co. offices, Medford.

LC 9-12

ENGINEERING NEWS

Oregon, Washington, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

● **CLEARING, BANKING— Brownsville, Ore.**

Bids will be opened 2 p.m., P.S.T., October 2, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for clearing and snagging the river channel and constructing spoil banks along the Calapooya River approximately two mi. east of Brownsville, Linn County; CIVENG-35-026-59-48. Specifications with above office. 20% bid bond. Work includes approximately 10,600 c.y. of excavation.

LB 9-16

■ **UTILITY SYSTEMS— Camp Adair, Ore.**

Additional planholders announced for construction of utility systems, including water distribution system, sanitary sewer system, sewage pumping station and electrical system, to serve 150-unit family housing project at Camp Adair Air Force Base, near Corvallis; Inv. IFB-35-608-59-7. Bids will be opened 2 p.m., September 24, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland.

Additional planholders: Elte Construction Co., Route 3, Boring; Jay Tiel Co., Box 126, Philomath; Hennen & Vos-Willis, 450 Figueroa, Eugene.

WB 9-17. Previous report 9-11

● **DREDGING— Coos Bay, Ore.**

Bids will be opened 2 p.m., P.S.T., October 9, by Corps of Engineers, Portland district, 628 Pittock Block, Portland, for approximately 630,000 c.y. dredging the channel in Coos Bay to a depth of 30' at mean lower low water and disposing of all excavated material, in Coos Bay; CIVENG-35-026-59-47.

STREET PAVING— **Ontario, Ore.**

Construction to start soon by Russell Olson Construction Co., Box 272, Pendleton, for paving on streets in Ontario's street improvement district No. 3. The paving will start on N.W. 9th St. LC 9-12

ROADS, IRRIGATION WORK, BUILDINGS— **Portland, Ore.**

New construction funds totaling $1,654,000 were appropriated by Congress for the Bureau of Indian Affairs, Don C. Foster, Portland area manager, Interior Bldg., 1001 N.E. Lloyd Blvd., Portland. The new funds, together with carryover funds or contracts from the 1958 fiscal year ended June 30 will give the following totals for the 1959 fiscal year: $394,000 for plant management; $882,645 for roads; $826,246 for irrigation work at Fort Hall, Idaho, and Yakima, Wash., reservations.

Plant management work will include: Dormitory rehabilitation at Chemawa Indian School near Salem, Ore.; water system work, Colville, Wash.; remodeling building into apartments at Warm Springs, Ore.; office addition and shop facilities, and rewiring at Yakima, Wash.

Roads: Construct 6.8 mi. of new road and surfacing existing street at Colville; 7.7 mi. of surfacing at Fort Hall; 7.1 mi. of new roads, Klamath reservation, Ore.; 4 mi. of new road, Umatilla, Ore.; 8.9 mi. of new road, Warm Springs; 15 mi. of new road, Western Washington agency; 4.5 mi. of new road, Yakima.

Irrigation: Michaud unit of Fort Hall project, main canal, under contract to Pace Construction Co., Burley, Idaho, $259,511; completion of 4 mi. of main canal, $355,000; Portneuf pumping station for above project; Wapato-Satus project on Yakima reservation, being done by B.I.F. employees, includes rehabilitation and extension of drainage system and construction of living quarters at the pumping and electric power generating station, $79,000. WB 9-12

★METAL GATE— **Portland, Ore.**

Award to only bidder, The Colorado Fuel & Iron Corp., 1350 N.W. Raleigh St., Portland, $1,171, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 40 metal gates, single swing, 50" minimum height to fit 16' gate opening; Inv. 8862. Delivery, Eavan Spur, Vancouver, Wash. Bid opening was August 28.
WB 9-12. Previous report 8-13

★INSTALL CONDUIT— **Portland, Ore.**

Award to Serge R. Perrin, 405 Ogden Drive, Oregon City, $2,986, by 337th Fighter Group, Portland International Airport, Portland, for installation of signal conduit in the alert area at Portland International Airport; Inv. 35-608-59-13. Bids opened September 8.
WB 9-12. Previous report 8-27

★FURNISH INSULATOR PEDESTALS— **Portland, Ore.**

Award to King Bros., Inc., 3500 S.E. 17th Ave., Portland, $3,703, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing insulator pedestals; Inv. No. 8838. WB 9-12. Previous report 8-1

★COAXIAL CABLE— **Portland, Ore.**

Award to British Insulated Callenders Cables, Ltd., London, WC1, England, $1,064, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 10,000' of coaxial cable fob Eavan Spur, Vancouver, Wash.; Inv. No. 8846. Four higher bids were received August 7.
WB 9-12. Previous report 7-23

★CULVERT PIPE— **Portland, Ore.**

Award to Beall Pipe & Tank Corp., 12005 N. Burgard St., Portland, $722, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 36' of 48" culvert pipe, 8-gauge, zinc coated, and two connecting collars, fob East Vancouver Warehouse, Vancouver, Wash.; Inv. 8864. Beall was lowest of four bids received August 18.
WB 9-12. Previous report 9-13

▲TRACKAGE IMPROVEMENT— **Portland, Ore.**

Two bids received by Port of Portland, John J. Winn, Jr., general manager, 5848 N. Lagoon Ave., Swan Island, Portland (Box 4099), for improvement of railroad tracks on Swan Island. Bids opened September 10. BIDS: A. D. Ford & Son, 2535 N.W. Upshur St., Portland, $6,629; B. H. Samuel & Sons, 5253 N.E. Sandy Blvd., Portland, $8,640. Enginer's estimate, $5,141.
WB 9-12. Previous report 8-23

WILLAMETTE RIVER BRIDGE— **Portland, Ore.**

A bond issue for $7,000,000 will be submitted to voters in the November election by Multnomah County Commissioners, Jack Bain, Al Brown and M. James Gleason, for construction of a three-lane bridge parallel to the Ross Island Bridge across the Willamette River. Westbound traffic would use the new bridge, and eastbound traffic, the old bridge. The bridge would have 40' between curbs and a 5' sidewalk. WB 9-13

HYDROELECTRIC FACILITIES— **Portland, Ore.**

A charter amendment will be on the City of Portland ballot in the November 4 election to allow the city to install power generating facilities in the water system dams on the Bull Run reserve near Mt. Hood. Up to $5,000,000 in general obligation bonds may be sold to finance the project. The bonds would be paid by sale of power and of timber on the watershed, and a tax levy if necessary.

Preliminary studies have been made by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland. The City Council, Terry D. Schrunk, mayor, City Hall, Portland, decided to get voter approval before conducting further studies to determine if revenues from the project will be sufficient to pay off the bonds.

Generating equipment would be installed in the existing Bear Creek Dam and the new dam under construction. The project would generate 98 kw a year. Transmission lines would also be built to deliver the power to private utilities, industries or Bonneville Power Administration. The power might instead be used for street lighting in the city.
WB 9-13. Previous report 9-25 (Storage Dam)

▲DOZER— **Portland, Ore.**

Two bids received by City Purchasing Agent, 208 City Hall, Portland, for pneumatic-tired, four-wheel dozer with controlled angle dozer blade. Bids opened September 11. BIDS: Wagner Tractor, Inc., 8027 N.E. Killingsworth St., Portland, $14,000; Cramer Machinery Co., 1140 S.E. 7th Ave., Portland, $14,370.
WB 9-13. Previous report 9-3

★COPPER WIRE— **Portland, Ore.**

Award to North Coast Electric Co., 625 N.W. Everett St., Portland, $749, by U.S. Forest Service, 729 N.E. Oregon St., Portland, for furnishing 15,000' of single conductor, copper wire; Inv. No. R6-59-87. Eleven bids were received September 11.
WB 9-13. Previous report 9-11

★BRIDGE— **Portland, Ore.**

Bids were opened September 12 by Bureau of Public Roads, Portland for constructing 85' reinforced concrete bridge (Upper Deer Creek Bridge) on Deer Creek Road, Willamette National Forest, Linn County, Ore.; FDRP 1451-C.

AWARD: George W. Millett, Jr., 330 Sunset Drive, Eugene, $16,090. 2ND LOW: Sweet Home Construction Co., Sweet Home, $18,592. HI BID: Orlando C. Bennard, 6937 N. Fiske Ave., Portland, $24,120. Engineer's estimate, $19,805.
WB 9-16. Previous report9-6

▲INSTALLING LINER PLATES— **Portland, Ore.**

Three bids received by City Purchasing Agent, 208 City Hall, Portland, for installation of approximately 142.5' of steel liner plates in S.E. Alder St. trunk sewer. Bids opened September 12. BIDS: Armco Drainage & Metal Products, Inc., 1320 S.W. Broadway, $7,708; Lord Bros., 9233 N. Calvert Ave., $11,171; George W. Lind, 5000 N.E. Killingsworth St., $12,470. Of Portland.
WB 9-16. Previous report 9-5

★BANK PROTECTION— **Portland, Ore.**

Award to Basto Construction Co., Box 982, Pasco, Wash., $41,298, by Corps of Engineers, 628 Pittock Block, Portland, for construction of stone groins and excavation of channel at the Leaburg Dam location on McKenzie River, immediately downstream from Leaburg Dam, about four mi. northeast of Leaburg, Lane County, Ore.; CIVENG-25-026-59-25. WB 9-17. Previous report 8-30

● GRADING— **Portland, Ore.**

Bids to be opened 10 a.m., October 3, by Bureau of Public Roads, 824 Morgan Bldg., Portland (Box 3900) for grading 2.832 mi. Oregon Coast Highway, Siuslaw National Forest, Lincoln and Tillamook counties, FHP 3-A3, Ore. Plans with above office.

Quantities: 5 acre clearing; 40 acre grubbing; 827,000 c.y. excavation; 783,000 sta. yd. overhaul; 153 c.y. concrete; 20,600 lb. reinforcement steel; 4,800' culvert pipe.
DM 9-17

● GRADING, CONSTRUCTION POSTS— **Portland, Ore.**

Bids to be opened 10 a.m., October 3, by Bureau of Public Roads, 824 Morgan Bldg., Portland (Box 3900) for grading 0.637 mi. and constructing posts for 0.228 mi. on Oregon Coast Highway, Siuslaw National Forest, Tillamook County, FHP 3-A4, Ore. Plans with above office.

Quantities: 5 acre clearing; 15 acre grubbing; 480,000 c.y. excavation; 481,000 sta. yd. overhaul; 2,700' culvert pipe. DM 9-17

★SEWAGE TREATMENT PLANT— **Rainier, Ore.**

Awards announced by City Council, Rainier, on construction of sewage treatment plant (Sched. 1) and about 3,500' of interceptor sewers (Sched. 2). Bids were opened for the second time September 10. AWARDS: 1—Riverside Construction Co., Box 3853, Portland, for sewage treatment plant. The firm bid $82,767 using standard clarifier and $84,417 on degritting clarifier. Selection of alternate has not yet been made. 2—Trio Construction Co., Eugene, $27,090.

Other bids—PLANT: Packard Pipe and Pump Co., 554 14th, Longview, $86,311 (standard), $88,151 (degritting); L. B. Read, 2607 S.W. Sunset Blvd., Portland, $87,150, $89,150; George W. Lind, 5000 N.E. Killingsworth, Portland, $89,584, $91,887; Everett L. Wiggins, 5622 N. Delaware, Portland, $92,816, $94,816; DenHerder Construction Co., Inc., Box 307, Lebanon, $111,475, $113,101. SEWERS: DenHerder Construction Co., $27,236; Paul Ferneding, 2115 E. 27th, Vancouver, $27,887; Packard Pipe and Pump, $40,215; Riverside Construction Co., $40,825; Atlas Construction Co., Portland, $41,556; George W. Lind, Portland, $42,363; P. S. Lord, Portland, $44,631. DC 9-16. Previous report 9-6

★STATE HIGHWAY PROJECTS— **Salem, Ore.**

Thirteen contracts were awarded and six projects held with awards recommended to the low bidder on the 19 highway construction projects for which bids were opened on August 26 by Oregon State Highway Commission in Salem.

ROCK PRODUCTION, Dooley Mountain—About 6,000 c.y. crushed sanding material in sand shed and stockpile on Baker Unity Highway, about 15 mi. south of Baker, Baker County; a State Project. AWARD: Cartwright Construction Co., Durkee, $20,700.

CONCRETE DECK, Shipley Bridge over Tualatin River — Construct 300' reinforced concrete deck and handrail on pile supported precast beams to replace existing trestle approaches to steel truss span on Market Road 12, three mi. southwest of Oswego and ½ mi. north of Stafford, Clackamas County; FAP No. DS-399(1). AWARD: Inland Construction Co., 6202 S.E. Harmony Road, Milwaukie, $59,058.

GRADING, PAVING, Hunter Creek-Buena Vista Wayside Section—Grading 1.45 mi., paving 1.3 mi. on Oregon Coast Highway about one mi. south of Gold Beach, Curry County; FAP No. BD-124(15). Award recommended to Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $406,586.

BRIDGE, Hunter Creek—Constructing 360' concrete bridge on Oregon Coast Highway near Gold Beach, Curry County; FAP No.

BF-124(15). AWARD: Tom Lillebo, Reedsport, $171,368.

GRADING, PAVING, Elkton-Smith Bridge Section—Grading and stone base on 3.75 mi. and paving 3.36 mi. on Elkton-Sutherlin Highway, Douglas County, southerly from Elkton. FAP Nos. DS-217(6) and S-217(7). Award recommended to M. J. Brassfield Co. and J. M. Purcell Construction Co., Salem, $555,810.

GRADING, PAVING, O'Shea Creek Section—Grading 0.46 mi.; paving 0.49 mi.; constructing 156' reinforced concrete bridge; furnishing material in stockpile, on Tiller-Trail Highway, 0.8 mi. east of Canyonville, Douglas County; FAP No. S-80(3). AWARD: Thornton-Bell, Roseburg, $125,859.

BRIDGES, McKenzie River Overflow—Three precast concrete structures on treated timber piles near Coburg on Harrisburg-Eugene Road (total length 399') in Lane County; FAP No. DS-137(2). AWARD: Inland Construction Co., Milwaukie, $96,558.

FENCING, Beverly Beach Park—Approximately 470 rods type 3 fence along boundaries of State Park, Oregon Coast Highway, about six mi. south of Depoe Bay, Lincoln County; a State Project. AWARD: Bennett & Hickey, Burns, $6,195.

GRADING, BRIDGES, Belts Road-Lane County Line Section—Grading 6.86 mi.; constructing two 105' pile trestle bridges, Pacific Highway, about four mi. north of Coburg, Linn County; FAIHP I-5-4(19)204. Award recommended to Roy L. Houck & Sons, 1585 N. 20th, Portland, $739,796.

BRIDGES, Lebanon Section—Three pile-founded, precast beam, reinforced concrete bridges—one 66' three-span bridge over Willow Creek on McDowell Creek Road, six mi. southeast of Lebanon; one 84' three-span bridge over McDowell Creek on McDowell Creek Road nine mi. southeast of Lebanon; one 100' four-span bridge over Oak Creek on Market Road 11, two mi. south of Albany and 8½ mi. northwest of Lebanon, in Linn County; FAP Nos. DS-178(4), C-378(2). AWARD: James F. Turner, 2655 Taylor, Corvallis, $40,334.

APPROACH SPAN, Bates Park bridge over South Santiam River—One 160' continuous two-span welded steel plate girder approach to existing truss on McDowell Creek Road about three mi. southeast of Lebanon, Linn County; FAP No. S-178(3). AWARD: James F. Turner, Corvallis, $51,287.

ILLUMINATION, Highlands Interchange—Install mercury-vapor and fluorescent luminaires on Sunset Highway in Portland, Multnomah County; FAP U-3-8(4). AWARD: W. R. Grasle, 437 N.W. 16th, Portland, $13,200.

ROADSIDE IMPROVEMENT, Interstate Bridge-Oregon Slough—Improvements on Pacific Highway north of Portland, Multnomah County; Toll Bridge Project. AWARD: E. P. Baltz & Son, 8716 E. Burnside, Portland, $14,330.

PAVING, Sundial-Multnomah Falls Section—Paving 14.3 mi. Columbia River Highway, 15 to 30 mi. east of Portland, Multnomah County; FAIHP I-82-1(11)14 and I-82-2(7)15. Award recommended to Rogers Construction Co., 11760 N.E. Glisan, Portland, $1,699,492.

STONE BASE, OILING, West Unit, Ukiah-Forest Boundary Section—Stone base and oiling 3.59 mi. Ukiah-Hilgard Highway east of Ukiah, about 50 mi. south of Pendleton, Umatilla County; FAP DS-57(6). AWARD: E. H. Itschner, Box 316, Molalla, $41,234.

BRIDGE, Thornhollow Bridge over Umatilla River—One 182' concrete bridge on Adams-Cayuse Road, 18 mi. east of Pendleton, Umatilla County; FAP DS-428(2). Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $45,019.

STONE BASE, OILING, Forest Boundary-Hilgard Section—Stone base and oiling 16.69 mi. on Ukiah-Hilgard Highway southwest from Hilgard, about 8 mi. northwest of La Grande, Union County; FAP DS-57(6). AWARD: E. H. Itschner, Mollalla, $172,328.

GRADING, PAVING, North Plains Interchange Section—Grading 1.25 mi., paving .98 mi. on Sunset Highway about 15 mi. west of Portland, Washington County; FAP DF-186(18). Award recommended to Warren Northwest, Inc., Box 5072, Portland, $290,489.

GRADING, PAVING, Middleton-Yamhill County Line Section—Grading and asphaltic concrete paving 3.45 mi. Pacific Highway West about four mi. north of Newberg, Washington County; FAP DF-73(13). Award recommended to Fred H. Slate Co., Ore. Ltd., and E. C. Hall Co., Portland, $497,258.

DM 9-13. Previous report 8-27

★STATE HIGHWAY PROJECTS—

Salem, Ore.

Eight awards were made by Oregon State Highway Commission, Salem, on 18 projects on which bids were opened September 9. The commission also recommended awards on nine projects and rejected bids on one job. One project, the Porter Street Undercrossing in Portland, Multnomah County, was withdrawn prior to bid opening and proposals were returned to the bidders. It will be readvertised at a later date.

TRAILER CAMP SITES, Fort Stevens State Park—Construct 14 trailer and 69 camp sites, access roads, utility building, latrine, pumphouse, water, sewer and electrical systems, in Clatsop County; a State Project. AWARD: Eugene Gardens, 1515 Sylvan, Eugene, $65,982.

BRIDGE, Saspal Slough—240' reinforced concrete precast timber bridge on treated timber piling on Brownsmead Loop Road at M.P. 4.1, Clatsop County (FAS 757) FAP No. S-398(2). Award recommended to Workman & Wilson, Route 1, Box 30, Canby, $47,689.

BRIDGE, Nehalem River—180', three-span, reinforced concrete deck girder and welded steel plate girder bridge, 17 mi. south of Vernonia, with roadway detour and detour bridge, Columbia County; FAP No. S-213(3). AWARD: Babler Bros., Inc., 2617 S.E. Milwaukie, Portland, $75,805.

GRADING, OILING, North Bend Airforce Station Access Road—Grade widening 0.77 mi. and oiling 1.14 mi. on Lungren County Road about 7.5 mi. north of North Bend, Coos County; FAP No. R-AD-7(2). Award recommended to Robert Angell, North Bend, $63,284.

BRIDGES, Crook Creek, Edson Creek—Two precast concrete panel bridges, three spans each, one 45' long to carry Pistol River County Road over Crook Creek, 11 mi. south of Gold Beach; and one 51' long to carry North Rogue River County Road over Edson Creek, four mi. north of Gold Beach, Curry County; FAP No. DS-400(1). Award recommended to Sig Andersson, 1371 Bayview, North Bend, $23,814.

GRADING, PAVING, Comstock-Aunlauf Section—About 1.38 mi. on Pacific Highway, south of Cottage Grove, Douglas County; FAIP I-5-3(5)163. Award recommended to White Bros. Construction Co., Inc., Box 376, Walla Walla, Wash., $270,577.

GRADING, PAVING, N. Oakland Jct.-Sutherlin Jct.—Grading and paving 2.03 mi., shoulder oiling 3.68 mi. on Pacific Highway about 12 mi. north of Roseburg, Douglas County; FAIHP No. I-5-3(7)137. AWARD: White Bros. Construction Co., Inc., Walla Walla, $351,967.

ROCK PRODUCTION, Santiam Jct.-Suttle Lake—About 10,000 c.y. crushed rock or gravel in stockpiles on Santiam Highway near Hogg Butte about 13 mi. northwest of Sisters, Jefferson and Linn counties; a State Project. Bids rejected as too high. Low bidder was Roseburg Sand and Gravel Co., Roseburg, $38,700.

GRADING, PAVING, North Grants Pass Interchange—Grading, paving Pacific Highway at Grants Pass, Josephine County; FAIHP No. I-5-1(2)58. AWARD: Hughes & Dodd Co. and Tru-Mix Equipment Co., Medford, $114,340.

BRIDGES, Rough and Ready Creek-Dwight Creek—Three-span reinforced concrete deck girder bridges, 170' at Rough and Ready Creek, 144' at West Fork Illinois River, 139' at Elk Creek, on Redwood Highway about 5.2 to 11.9 mi. south of Cave Junction, Josephine County; FAP No. F-127(8). Award recommended to Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $329,936.

BRIDGE, Grave Creek—118' reinforced concrete bridge using precast beams and prestressed precast beams on existing piers and abutments, on Josephine County Road No. 5 at Leland about three mi. west of Pacific Highway and 15 mi. north of Grants Pass, Josephine County; FAP No. DS-396(1). Award recommended to Ausland Construction Co., Box 437, Grants Pass, $22,191.

GRADING, Linn County Line-McKenzie River—Grading 6.07 mi. Pacific Highway from five to 11 mi. north of Eugene, Lane

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County; FAIHP No. I-5-4(20)198. Award recommended to Natt McDougall Co., Pittock Block, Portland, $1,126,788.

BRIDGES, Tallman Branch and Bond Butte—Four reinforced concrete deck girder bridges of five spans each, two 230' bridges to carry Pacific Highway over Tallman Branch of Southern Pacific R.R. about 3.7 mi. south of Albany; and two 282' with four retaining walls to carry Pacific Highway over Woodburn-Springfield Branch of S.P.R.R. about 23 mi. south of Albany, Linn County; FAIP No. I-5-4(21)212. AWARD: Peter Kiewit Sons' Co., Vancouver, $311,314.

HIGHWAY BUILDING ELECTRICAL SYSTEM—Addition to distribution system, Marion County, a State Project. AWARD: Electric Corp., 1270 Wilbur, Eugene, $20,940.

GRADING, PAVING, Portland—0.65 mi. grading, asphaltic concrete paving on 122nd Ave.-136th Ave. section of N.E. Glisan St., Multnomah County; FAP No. DS-297(3). Award recommended to Warren Northwest, Inc., Box 5072, Portland, $113,490.

BRIDGE, Portland—Three-span, 149' reinforced concrete deck girder bridge with 84' roadway to carry Pacific Highway (Baldock Freeway) over S.W. Sheridan St., Multnomah County; FAIP No. I-5-6(12)200. AWARD: Birkemeier Construction Co., 14511 S.E. River Road, Milwaukie, $88,610.

TRAILER CAMP SITES, Cape Lookout State Park—21 trailer sites, 50 camp sites, access roads, utility building, latrine, water, sewer and electrical systems, Tillamook County, a State Project. AWARD: Lloyd Sperling, 1415 6th, Tillamook, $72,711.

CULVERTS, Prairie Creek—Two concrete box culverts on Zumwalt County Road about 2.5 mi. east of Enterprise, Wallowa County. Award recommended to Bechtel Bros., La-Grande, $24,720.

DM 9-13. Previous report 9-10

★**PAVING, SEWERS—** **Salem, Ore.**

Award to Salem Blacktop Paving Co., 1815 22nd S.E., Salem, $16,696, by Marion County Commissioners, Courthouse, Salem, for excavating, grading, paving, curbing and installing storm sewers on Glendale Ave. N.E., in the Glendale subdivision.

LB 9-16. Previous report 9-12

★**STATE HIGHWAY PROJECT—Salem, Ore.**

Award to Oregon Asphaltic Paving Co., 0441 S.W. Porter, Portland, $67,472, by Oregon State Highway Commission, Salem, for grading, paving, 0.53 mi. Beaverton-Tualatin Highway, Tigard-Bonita Road, 0.5 mi. east of Tigard, Washington County; FAP DS-284(3). Bids opened July 29.

LB 9-17. Previous report 8-2

★**STATE HIGHWAY PROJECTS—** **Salem, Ore.**

Awards announced by Oregon State Highway Commission, Salem, for two highway construction projects on which bids opened September 9.

Award to Sig Andersson, 1371 Bayview North Bend, $23,814, for two precast concrete panel bridges, three spans each, one 45' long to carry Pistol River County Road over Crook Creek, 11 mi. south of Gold Beach; and one 51' long to carry North Rogue River County Road over Edson Creek, four mi. north of Gold Beach, Curry County, FAP No. DS-400(1).

Award to Ausland Construction Co., Box 437, Grants Pass, $22,191, for constructing a 118' reinforced concrete bridge using precast beams and prestressed precast beams on existing piers and abutments, on Josephine County Road No. 5 at Leland, about three mi. west of Pacific Highway and 15 mi. north of Grants Pass, Grave Creek, Josephine County; FAP No. DS-396(1).

LB 9-17. Previous report 9-13

●**STATE HIGHWAY PROJECTS—** **Salem, Ore.**

Bids to be opened 9 a.m., September 30, by Oregon State Highway Commission, 418 State Highway Bldg., Salem, on 18 highway construction projects. Plans with above office.

Award of contracts will be made at the October 23 meeting of the commission in Salem.

BRIDGE, Clear Creek—Reinforced concrete 144' structure on County Road No. FAS 810 at Viola about 12 mi. east of Oregon City, Clackamas County; FAP No. DS-395(1).

Quantities: 325 c.y. structure excavation; 300 c.y. class A concrete; 70,000 lb. metal reinforcing; removal and stockpiling existing truss.

BRIDGE, PAVING, Bear Creek—Reinforced concrete 84' bridge and 0.07 mi. grading, paving on Bear Creek County Road, 1.3 mi. south of Svensen, Clatsop County; FAP No. DS-405(1)21.

Quantities: 1,400 c.y. excavation; 850 c.y. crushed material; 8 ton asphalt; 148 c.y. class A concrete; 40,000 lb. metal reinforcing.

TRAILER SITES, Sunset Bay State Park—Construct 12 trailer sites, 50 campsites, access roads, utility building, latrine, water, sewer and electrical systems, Coos County; a State Project.

Quantities: 10,000 c.y. special borrow; 6,500 c.y. excavation; 400' of 12" corrugated metal pipe; 1,000 c.y. crushed material; 40 tons fence; 3,200' plastic pipe; 1,500' sewer pipe; 3 septic tanks; 63 tables, stoves, guard logs.

GRADING, BITUMINOUS SURFACING, Bullards Bridge-Bandon Section—Grading and bituminous surfacing 1.8 mi. Oregon Coast Highway near Bandon, Coos County; FAP No. DF 109(8).

Alternate bids to be received on surfacing—Alt. A: 24,300 ton plantmix asphaltic stabilized base; 1,390 ton 200-300 asphalt; 2,940 ton oil aggregates; 58 ton RS-2 asphalt. B: 29,000 ton crushed materials in base and oiling; 69 ton RS-3 asphalt; 96 ton 200-300 asphalt; 36 ton RS-2 asphalt; 8,890 ton asphaltic concrete mix in pavement; 530 ton 85-100 asphalt in mix. Other quantities: 218,000 c.y. excavation; 100 c.y. concrete in culvert 18,900 lb. metal reinforcing; 2,500' guardrail.

GRADING, PAVING, East Unit, Garden Valley Road Section—Grading, asphaltic concrete paving 0.52 mi. Garden Valley County Road north of Roseburg, Douglas County; FAP No. DUS 402(1).

Quantities: 7,320 c.y. excavation; 230 c.y. concrete in curbs, box culverts, walls; 6,900 c.y. crushed materials in base and oiling; 18 ton RC-3 asphalt; 2 ton RS-1 asphalt; 2,680 ton asphaltic concrete pavement.

ROCK PRODUCTION, Santiam Jct.-Suttle Lake—About 10,000 c.y. crushed rock or gravel in stockpiles on Santiam Highway near Hogg Butte, about 13 mi. northwest of Sisters, Jefferson and Linn counties.

GRADING, PAVING, BRIDGE, Redwood Highway Jct.—Grading, asphaltic concrete paving, constructing one 51'x100' reinforced concrete structure on Pacific and Redwood highway at Grants Pass, Josephine County; FAP U-131(19) and F-127(9).

Quantities: 169,000 c.y. excavation; 1,230 c.y. concrete in culverts, curbs et al; 2,400' guardrail; 55,370 ton crushed materials; 90 ton RC-3 asphalt; 80 ton 120-150 asphalt; 24 ton RS-1 asphalt; 13,600 ton asphaltic concrete pavement; 450 c.y. structure excavation; 1,603 c.y. concrete in structures; 503,050 lb. metal reinforcing; 130 sq. yd. waterproofing; 220' metal handrail; 380 sq. yd. slab riprap.

PAVING, N. Albany Jct.-Lebanon Road—Portland cement and asphaltic 6.96 mi. Pacific Highway, south from Albany, Linn County; FAIP I-5-4(22)228.

Quantities: 67,800 c.y. excavation; 500 c.y. concrete in curbs, gutters, islands; 32,000' guardrail; 500 guide posts; 80 tons fence; 325,000 ton crushed materials; 180 ton RC-3 asphalt; 110 ton 120-150 asphalt; 34 ton RS-asphalt; 34,600 ton asphaltic concrete pavement; 194,000 sq. yd. reinforced portland cement concrete pavement.

STRUCTURES, South Santiam Jct.-Lane County Line—Two undercrossings and six twin drainage structures on Pacific Highway from about 2.5 mi. to 17 mi. south of Albany, Linn County; FAIHP I-5-4(23)218.

Quantities: 1,500 c.y. structure excavation for reinforced concrete deck girder and slab span bridges; furnish, drive 8 test piles; 1,100' steel piling; 5,052' treated timber piling; 16,228' precast or prestressed concrete piling; 3,876 c.y. class A concrete; 1,085 class A-A concrete; 1,239,700 lb. metal reinforcing; 665' of 8" metal drain pipe.

GRADING, PAVING, STRUCTURES, Gwynn Undercrossing-Jonesboro and Tunnel-Namorf Sections—Grading and paving 10.7 mi., constructing two reinforced concrete deck girder bridges, stockpiling on Central Oregon Highway, 12 mi. east of Juntura and 30 mi. west of Vale, Malheur County; FAP F-326(6).

Quantities: 347,600 c.y. excavation; 85 c.y. concrete in culvert; 14,000 lb. metal reinforcing in culvert; 10,000' guardrail; 300 sight posts; 1,500 rods fence; 5,000 ton riprap; 104,300 ton crushed materials in base and oiling; 11,500 c.y. crushed material in stockpile; 160 ton MC-2 asphalt; 170 ton 120-150 asphalt; 70 ton RS-1 asphalt; 30,100 ton asphaltic concrete mix in pavement; 1,800 ton 85-100 asphalt in mixture; 340 c.y. structure excavation; 440' steel piling; 385' treated timber piling; 670 c.y. concrete in structures; 157,455 lb. metal reinforcing in structures.

MAINTENANCE BUILDING, Detroit—Construct 36'x11' masonry block building with asbestos shingle roof, one mi. east of Detroit, Marion County; a State Project.

ROADSIDE IMPROVEMENT, Battle Creek Jct.-N. Albany Jct.—Roadside improvement 14.12 mi. on Pacific Highway north of Albany, Marion and Linn counties; FAIHP I-5-4(24)235.

Quantities: 300 c.y. excavation; 4,100 c.y. topsoil; 900 trees; 11,000 shrubs; 19,000 vines; 1,000 lb. grass seed; 12,000 lb. organic fertilizer; 14,600 lb. inorganic fertilizer; 310 units sawdust.

LEVELING, OILING, N. Unit, Bomber Range Road Section—Stone leveling course and oiling 9.34 mi. Bomber Range Road about five mi. east of Boardman, Morrow County; FAP DS-406(1), S-406(2).

Quantities: 34,660 ton crushed material; 170 ton MC-2 asphalt; 200 ton 120-150 asphalt; 120 ton RS-1 asphalt.

GRADING, PAVING STRUCTURES, Hillsdale-Barbur Blvd.-Hamilton St.—Grading, paving, structures on Beaverton-Hillsdale and Pacific West Highways involving 0.63 mi. highway roadbed, 0.67 mi. widening, three reinforced concrete partial viaducts totaling 654' in length, one 315' retaining wall, one 553' reinforced concrete structure, steel overcrossing in Multnomah County; FAP DUS-190(6), DU-203(6).

Quantities: 42,000 c.y. embankment; 500' sewer pipe; 60' corrugated metal pipe; 620 c.y. concrete curbs, islands; 800' metal guardrail; 19,000 ton crushed material; 28 ton asphalt; 4,200 ton asphaltic concrete; 1,200 c.y. structure excavation; 3,800' steel piling; 2,700' treated timber piling; 1,675 c.y. class A concrete; 405,000 lb. metal reinforcing; 67,000 lb. structural steel; 1,770' pipe parapet rail.

GRADING, Tillamook Bay-Coleman Creek—Grading 0.87 mi. Cape Meares Loop Road about 3.5 mi. north of Oceanside, Tillamook County, involving about 53,330 c.y. excavation; FAP DS-1(6), S-1(7).

GUARDRAIL, Wallowa Lake Section—Construct about 20,500' of galvanized metal guardrail on 3.85 mi. of Joseph-Wallowa Lake Highway about two mi. southeast of Joseph, Wallowa County; FAP S-258(3).

PAVING, STOCKPILING, Big Eddy-Rufus Section—Asphaltic concrete paving 15.6 mi. and furnish crushed materials in stockpile on Columbia River Highway, east of The Dalles, in Wasco and Sherman counties; a State Project.

BRIDGE, Sunset Highway Undercrossing—Construct 236' reinforced concrete bridge of four prestressed beam spans on 1st St. in North Plains, Washington, FAP DS-186(18).

Quantities: 400 c.y. structure excavation; 7,370' treated timber piling; 477 c.y. class A concrete; 196 c.y. class A-A concrete; 89,500 lb. metal reinforcing; 16,000 lb. prestressing steel; 500' metal handrail; 200' of 8" metal drain pipe; 300 sq. yd. concrete slab riprap.

DM 9-17

BOAT RAMP— **Seaside, Ore.**

Bids will be called soon by City Council, City Hall, Seaside, for construction of a boat ramp at the foot of Oceanway and the Necanicum River and for furnishing rock to be used on a 15' roadway from Edgewood to the river.

DC 9-17

DITCH LINING— **Springfield, Ore.**

(Estimated cost $220,000)

A report is being prepared by the city engineering department, City Hall, Springfield, on feasibility and cost of lowering, paving sides, covering the top with concrete

le ditch, a major drain-
ws through the city.
DC 9-17

ON

ING STATIONS— **Aberdeen, Wash.**

ard Pipe and Pump Co., ngview, $266,097 by City ll, Aberdeen, for construc- e pumping stations and ap- for the city's pollution con- way. Consulting engineers: npson, 2234 S.W. 5th, Port- DC 9-13. Previous report 8-29

ING— **Aberdeen, Wash.**

eaver & McGarragh, 1512 S. en, $1,500, for earth moving eveling for the new Central ry school for the Aberdeen No. 5, H. J. Kramer, superin- 100, Aberdeen. LC 9-17

AIN ATHLETIC FIELD— **Bellevue, Wash.**

received by Bellevue School 405, George B. Brain, superin- 67, Bellevue, for grading and ite for construction of an ath- ids opened September 12. Plans re, Bain, Brady & Johanson, nd engineers, 904 7th Ave., Se- BID: Aall City Excavating Co., W., Seattle, $71,170. OTHER t Coast Construction Co., 835 W. le, $77,680; John Patricelli, 1534 attle, $102,373. PD 9-16

DIVERSION DAM— **Bellingham, Wash.**

Estimated cost $3,038,000)
ay be called late in 1958 or early ity Council, City Hall, Bellingham ruction of a diversion dam and on the Middle Fork of Nooksack Consulting engineers are John W. ham & Associates, 1112 Portland ldg., Portland.
ngineer's report recommends that a ersion dam be built at the presently d Middle Fork site, a 9,000' tunnel structed through Bowman Mountain mi. pipeline to Mirror Lake. Cost es have been broken down as fol- $281,500 for dam; $1,345,000 for tunnel ated 7,080' through rock and 1,800' h soft ground); $1,015,000 for pipeline; 0 for engineering and contingencies. DC 9-12. Previous report 7-13-57 and 9-5

GE— **Bellingham, Wash.**

(Estimated cost $8,000)
atcom County Commissioners have ap- ed replacing an existing bridge over the r Creek in district three with 105' of ile culvert. About 6,000 c.y. of fill will required on the Northwest Road, on ch construction will start in October. ET 9-12

SANITARY SEWER LINE— **Bellingham, Wash.**

ids will be opened 9:30 a.m., September by City Clerk, City Hall, Bellingham, for nstruction of the College-23rd Street sani- ry sewer line in Bellingham. Specifica- ons with city comptrollers office or from hn Cunningham & Associates, consulting ngineers, Portland Trust Bldg., Portland, re.
Planholders: Axel Lind, 2010 Woburn, Bellingham; Bellingham Paving Co., Foot of West, Bellingham. ET 9-16

LUMNI ISLAND BRIDGE— **Bellingham, Wash.**

(Estimated cost $1,600,000)
Approval has been requested by Board of Whatcom County Commissioners from the Army Corps of Engineers, Seattle, for plans and location of a proposed fixed highway bridge across Hale Passage from Gooseberry Point to Lumni Island. Present plans, by Homer Hadley, consulting engineer, Securities Bldg., Seattle, call for concrete piles and caps supporting a 26' roadway on pre-stressed concrete beams. The 3,240' bridge would have central 260' span, horizontal clearance of 247.5' and vertical clearances of 83.5' at mean lower water, and 72' at extreme high water in central 180' part of span. Central span will be flanked by two 170' spans, with 22 additional 120' spans completing the structure.
PD 9-16. Previous report 11-29-57

DRY DOCK— **Bremerton, Wash.**

(Estimated cost $34,000,000)
A briefing conference will be held 9:30 a.m., September 24 by Captain S. P. Zola, USN, District Public Works Officer and Officer in Charge of Construction for 13th Naval District, in the Shipyard Commander's Conference Room, Building 78, Puget Sound Naval Shipyard, Bremerton, to explain nontechnical aspects of the proposed Carrier Repair Site (Drydock No. 6) at the shipyard.
Plans and specifications for construction of the first increment of the Forrestal-type concrete graving drydock, are now in the hands of the printer. It is expected that bids will be called soon.
The briefing will cover scope of work, design features, geology, ground conditions, working areas and conditions, shipyard utilities and services and time of completion. Those desiring to attend the conference are requested to advise the District Public Works Officer, 13th Naval District, Bldg. 250, U. S. Naval Station, Seattle.
Architectural, engineering and design features were prepared by Moran, Proctor, Mueser & Rutledge, New York and Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle.
The dock, the largest in the world, will have inside dimensions of 1,150' length, 188' width, and 61' below yard grade.
DM 9-12. Previous report 7-23

SEWER WORK— **Camas, Wash.**

Construction underway by James F. Robertson Co., Camas, for laying 2,650' of concrete pipe and installing catch basins and manholes at Camas. Robertson's bid was $21,783. MH 9-12

FISHWAY TUNNEL— **Castile Falls, Wash.**

Bids will be called in the spring of 1959 by State Department of Fisheries, 4015 20th Ave. W., Seattle, for construction of 3,300' of rock fishway tunnel approximately 6'x8', on the upper Klickitat River at Castile Falls in Yakima Indian Reservation, Yakima County. Prospective bidders are requested to inspect the site prior to October 1 after which the area is normally closed by winter conditions. Information with Seattle Fisheries office. DM 9-16

WATER FILTRATION FACILITIES— **Cathlamet, Wash.**

Voters defeated a proposal for purchase of water filtration facilities for the city water system. DC 9-16

★STEEL BEAMS— **Colville, Wash.**

Award to Haskins Steel Co., Inc., Box 4215, Spokane 21, $2,740, by Stevens County Commissioners, Courthouse, Colville, for supplying five steel I-beams 25" depth and 9" flange, 84 lbs. approximately weight per foot, 60' in length. Bids opened September 2. CA 9-16. Previous report 8-28

SEWER CONSTRUCTION— **Dayton, Wash.**

Construction underway by Glenn Magill, contractor, Dayton, for laying 1,250' of 15" concrete pipe along Commercial Street (for repairing an interceptor line). Magill bid $12,585 for the job. Bids were opened by the City Council. MH 9-13

STORM SEWERS, CURBS, PAVING— **Edmonds, Wash.**

Construction planned by City Council, City Hall, Edmonds, for storm sewers, curbing, grading and street surfacing for Railroad Ave. from Main St. south to Dayton, in Edmonds. Cost estimates will be completed soon, by the city engineer, above address. MH 9-16

●EARTHWORK, STRUCTURES— **Ephrata, Wash.**

Bid opening extended from September 8 to 10 a.m., P.S.T., October 7, for 1—earthwork for 41 mi. of unlined laterals, wasteways and drains, 2—earthwork for and construction of about 15 mi. of earth-lined laterals, 3—earthwork for and construction of structures along waterway for Royal Branch canal laterals, Block 82, Columbia Basin Project, east of Vantage, Wash., in Grant County; Spec. No. DC-5093. Bids will be received by Bureau of Reclamation, Box 368, Ephrata. Plans with above office and with the bureau in Bldg. 53, Denver Federal Center, Denver, Colo.
LB 9-16. Previous report 8-13

▲EARTHWORK, CONCRETE LINING, STRUCTURES— **Ephrata, Wash.**

Twelve bids received ranging from a low of $234,316, submitted by George W. Lewis, Box 696, Kennewick, and Thompson Construction Co., 8th and Bonneville, Pasco, to a high of $395,014, were submitted to Bureau of Reclamation, Box 368, Ephrata, for earthwork on 2.8 mi. of unlined canal, earthwork for and concrete lining of about 1.1 mi. of lined canal earthwork for and construction of canal structures at Wahluke Branch Canal, Station 33+20 to 537+70 south of Othello, Franklin County, Wash.; Spec. No. DC-5086. Bids opened September 16.
2ND LOW: E-W Construction Co., 3170 W. 11th, Eugene, Ore., $249,301. 3RD LOW: J. W. Hardison, Box 48, Yakima, $267,777. HI: Peter Kiewit Sons' Co., Box 1777, Vancouver, $395,014. Engineer's estimate $302,227.
LB 9-17. Previous report 9-10

■WASTEWAY, DRAINS— **Ephrata, Wash.**

Planholders announced for wasteway and drains EL31BWW, DE229B, DE229G, DE345A9 and DE235A10 Block 42, Grant County, southeast of Moses Lake; Spec. No. 117C-516. Bids will be opened 10 a.m., P.S.T., September 23, by Bureau of Reclamation, Division Ave. and C St. N.W., Ephrata.

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★

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Planholders: P. C. Knox, Contractor, 310 E. Hereford St., Gladstone, Ore.; Dan Pfaff, 916 Cherry, Moses Lake; West Coast Construction Co., Inc., 835 W. 48th St., Seattle; Syblon-Reid Construction Co., Box 63, Warden; Leroy Basto, Box 982, Pasco; Murphy Bros., Box 2193, Spokane; Kenneth E. Beck, Box 518, Moses Lake; Fairbanks, Morse & Co., N. 6221 Cannon St., Spokane; Carl Hohner & Sons, Inc., 730 W. Chelan Ave., Spokane; Harry J. Glass and Associates, Box 1085, Denver, Colo.; Contractors & Excavators, Box 12, Warden; Otis Williams & Co., Box 1193, Kennewick; George W. Lewis, Box 696, Kennewick; William R. Brown, Box 847, Mesa; Gladding, McBean & Co., 945 Elliott Ave. W., Seattle; John M. Keltch, Box 504, Pasco; Lewis Hopkins Co., Box 930, Pasco; Floyd R. Grubb, 1305 12th St. S.E., Salem, Ore.; Bellevue Construction Co., 111 E. 1st, Aberdeen; Hargrove Garrison, 610 Colman Bldg., Seattle; John W. Stand Corp., 2339 Lincoln Ave., Tacoma; Dames & Moore, 1220 S.W. Morrison St., Portland, Ore.; Utility Construction Co., Box 538, Ontario, Ore.; Bellevue Construction Co., 610 Colman Bldg., Seattle; A. J. Cheff Construction Co., 1005 W. Marginal Way, Seattle.

United Concrete Pipe Corp., 111 Stratford Road, Moses Lake; Columbia Basin Steel & Iron, Inc., Box 8, Burbank; Beall Pipe & Tank Corp., 12005 N. Burgard, Portland, Ore.; Columbia Concrete Pipe Corp., Box 115, Ephrata; AAA Extinguisher & Equipment Co., 4809 N. 7th Ave., Phoenix, Ariz.; Spokane Culvert & Fabricating Co., 6212 E. Main, Spokane; Grant County Plumbing & Heating Co., Box 1567, Moses Lake; Western Tree Products, Inc., Box 100, Tacoma; Cascade Pumps, 11212 S. Norwalk Blvd., Norwalk, Calif.; J. & M. Electric, Box 337, Ephrata; Armco Drainage & Metal Products, Inc., Box 751, Federal Station, Portland, Ore.; Peerless Pump Division, 622 Central Drive, Moses Lake; System Analyzer Corp., Nokomis, Ill.; Connell Sand & Gravel, Inc., Box 156, Connell.

HH 9-17. Previous report 9-11

●VIBRATING SCREEN— Everett, Wash.

Bids will be opened 2 p.m., September 29, by Snohomish County Commissioners, Courthouse, Everett, for furnishing Snohomish County Road District No. 2, with one vibrating screen to be used with a Cedar Rapids Crusher outfit, fob Everett. Specifications with above office. HH 9-17

●MODIFY DIGESTER— Fairchild AFB., Wash.

Bids will be opened 10:30 a.m., September 25, by U.S. Air Force, procurement office, Fairchild AFB, for modifying digester, sewage plant facilties, at Fairchild Air Force Base; IFB 45-613-59-31. Specifications with above office. LL 9-16

★SPRINKLER SYSTEM—Geiger AFB, Wash.

Award to Senna Service, N. 832 Napa, Spokane, $5,552, by U.S. Air Force, procurement office, Geiger AFB, for installation of an underground water sprinkler system at Geiger Air Force Base; IFB 45-614-59-11. Bids opened September 4. Bids opened September 4. Fiv bids received.

LL 9-16. Previous report 9-11

●SWITCHYARD— Grant County, Wash.

Bids will be opened 2 p.m., P.S.T., October 7, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of 115-13.8 kv switchyard at Larson substation, Grant County, Wash.; Inv. No. 8868. Specifications with above office.

LB 9-12

●AIRPORT LIGHTING— Hoquiam, Wash.

Bids will be opened 2 p.m., P.S.T., September 29, by Grays Harbor County Board of Commissioners, Courthouse, Montesano, for installing lighting at Bowerman Field in Hoquiam; Federal Proj. No. 9-45-021-22. Plans and specifications with Airport manager, Bowerman Field, Box 366, Hoquiam, and with the consulting engineer, Walter S. Gordon, 260 S. 5th St., Tacoma. $10 deposit. 5% bid bond or certified check. Completion time 30 calendar days.

Quantities: 48 runway marker light, elevated, medium-intensite, clear; 16 same, elevated, medium-intentsity, green; 11,000' of cable trench, 21" excavation and backfill; 12,000' of underground cable, 1/c, No. 8, 3-kv, type B in Trench; 600' same, type B in duct or conduit; cable connections in vault; maintenance parts, runway lighting.

LB 9-16

▲GANTRY CRANE—Ice Harbor Dam, Wash.

Bids rejected and will be called again about September 23 for opening about October 15, by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, for a 50-ton spillway gantry crane for Ice Harbor Dam, Wash.; CIVENG-45-164-59-4. Nine bids received September 4. LOW BIDS: Pacific Coast Engineering Co., Oak St. and Clement Ave., Alameda, Calif., $119,700; Moffett Engineering Co., Inc., Box 54, Albany, Calif., $126,704. HI: Shaw-Box Crane Division, W. Broadway, Muskegon Heights, Mich., $205,615.

LB 9-13. Previous report 8-6

WELDED STEEL BRIDGE— Kelso, Wash.

Bids may be called by the first of October for construction of the Modrow Bridge over Kalama River near town of Kalama, south of Kelso, for Cowlitz County. Plans by Harry R. Powell & Associates, consulting engineer, Smith Tower, Seattle. Bridge will be 200' long, will have a 120' main span, three-hinged arch, concrete deck with 26' roadway.

PD 9-12. Previous report 9-5

FIRE-PROTECTION EQUIPMENT— Kelso, Wash.

Voters have approved a 5.11 mill special levy to raise $24,000 for purchase of fire-protection equipment in city of Kelso.

DC 9-16

▲ASPHALTIC CONCRETE PAVING, CRUSHED STONE SURFACING— King County, Wash.

Bids received by King County Commissioners, 402 County City Bldg., Seattle, for asphaltic concrete paving of 0.46 mi. of 16th S.W. (S.W. 102nd St. to S.W. 107th St.) R.I.D. No. 15 in White Center; and for crushed stone surfacing of 2.30 mi. of Newcastle Road (Newport-Issaquah Road to Cougar Mountain Road), King County.

Bids were opened September 15. PAVING—10 bidders—LOW: Kent & Tucker Inc., 1431 134th N.E., Bellevue, $57,370; W. J. Halleran & Son, 416 Virginia, Seattle, $60,-190; Bass Construction Co., 12526 Aurora Ave., Seattle, $61,257. High bid was $86,491. SURFACING—ONLY BIDS: Washington Asphalt Co., 309 W. 39th, Seattle, $53,119; West Coast Construction Co. Inc., 835 W. 48th, Seattle, $64,493; Pacific Construction Co., 121 River, Seattle, $65,073.

DM 9-16. Previous report 8-27

●GRADING, SURFACING— King County, Wash.

Bids to be opened 9:30 a.m, October 6, by King County Commissioners, 402 County City Bldg., Seattle, for draining, grading, and crushed stone surfacing one mi. on S. 376th St. (Oravetz Road), Pacific City, in King County. Plans with engineering office, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 14,590 c.y. com. excavation; 2,000 c.y. unsuitable foundation excavation; 175 c.y. structure excavation; 6,365 ton select road borrow; 3,450 ton crushed stone surfacing; 246' of 12" concrete culvert pipe; 378' of 18" to 36" standard reinforced concrete culvert pipe; 20 guide posts. DM 9-17

▲ROAD REPAIR— Makah AFS, Wash.

Only one bid received, that of Doolittle Construction Co., 510 Adams, Seattle, $135,-580, for repaving and repairing existing road to Operations area with 2" plantmix asphalt pavement, Makah Air Force Station, Neah Bay; Inv. No. 45-602-59-5. Road to be paved is approximately 12' wide and 3½ mi. long. Bids were received September 9, by U. S. Air Force, procurement office, Paine AFB.

HH 9-12. Previous report 8-19

SEWER SYSTEM— Marysville, Wash.

The Marysville City Council has dropped further study of plans of a comprehensive storm sewer system for Marysville, when cost estimates ranged from $150,000 to $200,000. The council is now considering a disposal area for its sanitary sewer system, and has applied for $51,000 in Federal aid.

MH 9-12

▲OFF-SITE UTILITIES— McChord AFB, Wash.

Bids received by U. S. Air Force, procurement office, McChord AFB, for construction of off-site utilities for 600 units of Capehart Family Housing at McChord Air Force Base; Inv. No. 45-603-59-8.

Three bids received September 12. Item 1 includes general work; item 2 is each foot of well; item 3 is to construct field office; item 4 includes 100 concrete cylinder tests. BIDS: Murray-Saunders, & George A. Fuller Co., 3100 W. 8th, Los Angeles, Calif., $430,000 (item 1), $14 per foot (2), $4,000 (3), $2.50 each (4); Alton V. Phillips, 4055 21st Ave. W., Seattle, $504,746, $50, $2,500, $10 each; Phoenix-Matthews, 1040 N.E. Baldwin, Portland, Ore., $506,756, $16, $5,000, $5 each.

LB 9-13. Previous report 9-10

●PAVING, DRAINING, CURBING— Monroe, Wash.

Bids to be opened 8 p.m., September 24, by Town Council, Town Hall, Monroe, for asphaltic concrete paving on concrete base, draining, curbing in LID 56, Monroe. Plans with Burt Manning, town clerk, Town Hall, or with William Morton & Associates, consulting engineers, 223 Eastlake Ave., Seattle. $15 deposit. Certified check 5%. Separate bide on 1—basic proposal, 2—alt. A, 3—Alt B.

BASIC BID—asphaltic concrete wearing course on concrete base (lump sum). ALT. A—asphaltic concrete pavement 2½" thick (lump sum). ALT. B—asphaltic concrete pavement 2" thick (lump sum). DM 9-16

SEWER SYSTEM—Mountlake Terrace, Wash.

Voters in Mountlake Terrace approved a bond issue in amount of $1,500,000 for sewers in Mountlake Terrace. A bond issue for $1,400,000 was defeated last June for financing sewers. The sewer bond will permit city to raise an additional $1,250,000 through revenue bonds to pay for the $1,400,000 sewer construction project.

LC 9-16. Previous report 8-6

WATER SUPPLY LINES— Mountlake Terrace, Wash.

A bond issue in amount of $300,000 was approved by voters in Mountlake Terrace to finance water supply lines within the city. The water bond will give the city funds to negotiate a purchase of all water facilities in the city from the Alderwood Water District.

LC 9-16. Previous report 8-13

SEWER LINES— Mt. Vernon, Wash.

The Mount Vernon City Council is studying the feasibility of connecting sewer lines to the Riverside trunk line. William P. Harper & Son, a bonding company, 1504 3rd, Seattle, is also assisting in the study.

MH 9-16

●CONSTRUCT MOORINGS— Neah Bay, Wash.

Bids will be opened 2 p.m., P.S.T., September 26, by 13th Coast Guard District, room 922, 618 2nd Ave., Seattle, for construction of new moorings at Neah Bay lifeboat station, Neah Bay; Bid No. FS-1837. Specifications with above office. 5% bid bond.

LB 9-12

BLACKTOPPING— Olympia, Wash.

Thurston County Commissioners, Olympia, have approved a $900,000 road budget for 1957, which includes $70,000 for blacktopping in the county.

MH 9-12

■STATE HIGHWAY PROJECTS— Olympia, Wash.

Planholders announced on the seven highway construction projects for which bids will be opened 10 a.m., September 23, by Washington State Highway Commission Transportation Bldg., Olympia.

SURFACING, PAVING, Salkum to Mill Creek—Clearing, draining, grading, cement treated base, bituminous surfacing, asphal-

tic concrete paving, fencing on 1.334 mi. PSH 5, Lewis County; FAP DS-016-1(8).

Planholders: Archie Radakovich, 2361 E. Lynwood Drive, Longview; The United Contracting Co., Box 5075, Portland, Ore.; Pieler Construction Co., Inc., 300 Spokane St., Seattle; W. B. Graham & Sons, 984 North St., Chehalis; Strong and Macdonald, Inc., 4045 Ruston Way, Tacoma; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; J. Arlie Bryant, Inc., and Clarence Braden, 4716 Skyview, Spokane; Pacific Sand and Gravel Co., Box 628, Centralia; Permanente Cement Co., 2075 E. Marginal Way, Seattle.

BRIDGE, Longview Wye Interchange-A and H Lines Separation—Constructing reinforced concrete box girder bridge on PSH 1, Cowlitz County; FAP L-5-1(21)37.

Planholders: Pakar Construction Co., Box 447, Chehalis; Orlando C. Bennard, 222 N.E. Holland, Portland, Ore.; Hart Construction Co., 3536 E. 11th, Tacoma; Paul Jarvis, Inc., Box 4001, Magnolia Station, Seattle; Richard L. Martin Co., Box 482, Oswego, Ore.; The United Contracting Co., Box 5074, Portland; Troy T. Burnham Co., 18666 Beverly Road, Seattle; Raymond Concrete Pile Co., 2323 N.W. Flanders, Portland; Excavators, Inc., 3656 29th N.E., Seattle; Lockyear & White, Inc., Box 687, Longview.

SURFACING, Waneta Road and Forsell Road—Draining, grading, surfacing 4.727 mi. Yakima County roads; FAS Nos. DS-0702(1), and DS-1383(1).

Planholders: J. Arlie Bryant, Inc., and Clarence Braden, 4716 Skyview, Spokane; Frank G. Bauine, Inc., Box 84, Yardley; Curtis Construction Co., Box 106, Spokane; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; C & E Construction Co., Inc., Box 1545, Yakima; Ray Weist Contractor, Box 191, Yakima; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Maurice Gredvig, Box 301, Yakima; Strong and Macdonald, Inc., 4045 Ruston Way, Tacoma; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; R. C. Marvel Construction Co., Inc., Box 73, Goldendale; D. A. Sullivan, Box 37, Parkwater Station, Spokane.

SURFACING, Endicott Road—Draining, grading, surfacing 2.588 mi. Thurston County road; FAS S-1062(1).

Planholders: Graystone of Olympia, 1001 N. Washington, Olympia; Robert L. Marsh Construction Co., 5002 38th S.W., Seattle; W. B. Graham & Sons, 984 North St., Chehalis; Excavators, Inc., 5756 29th N.E., Seattle; Nisqually Sand and Gravel Co., McKenna; R. C. Marvel Construction Co., Inc., Box 73, Goldendale; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Archie Radakovich, 2361 E. Lynwood Drive, Longview.

CLEARING, GRADING, FENCING, Johnson Creek Road—Clearing, draining, grading, fencing 1.441 mi. Okanogan County Road; FAS S-1165(1).

Planholders: Murphy Bros., Inc., E. 3728 Broadway, Spokane; C. E. Oneal, Inc., Box 270, Ellensburg; Russell-Gillett Co., Box G, Cle Elum; Henry J. Gannon, Box 1148, Othello; Johnston & Creighton Construction Co., Box 479, Ellensburg; William J. Halleran, 416 Virginia, Seattle.

SURFACING, Middle Waitsburg Road—Draining, grading, surfacing 4.437 mi. Walla Walla county road; FAS S-0635(3).

Planholders: C & E Csonruction Co., Inc., Box 1545, Yakima; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; Morrison & Co., Inc., Box 597, Walla Walla.

SURFACING, PAVING, Kincaid St. to Division St. in Mount Vernon—Draining, grading, bituminous surface treatment, asphaltic concrete paving, cement concrete paving 0.310 mi. PSH 1, Skagit County; a State Project.

Planholders: Associated Sand and Gravel Co., Box 914, Everett; Fowler Asphalt Paving Co., 711 2nd, Mount Vernon.

DM 9-16. Previous report 9-5

▲STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids received by Washington State Highway Commission, Transportation Bldg., Olympia, for eleven highway construction projects on which bids were opened on September 16.

CEMENT CONCRETE PAVING, Ponders to S. 72nd St., Tacoma—Draining, grading, surfacing, constructing cement treated base and bituminous surface treatment, cement concrete and asphaltic concrete paving, fencing on 5.029 mi. PSH 1, Pierce County; FAP No. I-5-3(31)125.

LOW BIDS: Northwest Construction Co., 3950 6th N.W., Seattle, $1,797,426; Fiorito Bros., 1100 Leary Way, Seattle, $1,823,228; Peter Kiewit Sons' Co., Box 1777, Vancouver, $1,890,858. Five bids.

SURFACING, Cedar River to North River—Clearing, draining, grading, surfacing with special ballast, fencing 5.722 mi. SSH 13-A, Pacific County; FAS S-0453(7).

ONLY BIDS: Osberg Construction Co., 1132 N. 128th, Seattle, $1,069,758; Strong & Macdonald, Inc., 4045 Ruston Way, Tacoma, $1,308,422; Bocek Bros., Box 666, Hoquiam, $1,379,807.

ASPHALTIC CONCRETE PAVING, BRIDGE, Chuckanut Drive Interchange—Draining, grading, surfacing, cement treated base, bituminous surfacing, asphaltic concrete paving, prestressed concrete girder bridge, illumination and signing 0.353 mi. PSH 1, Skagit County; FAP I-5-5(21)230.

LOW BIDS: Wilder Construction Co., Inc., 1840 State, Bellingham, $404,281; S. B. Spencer & Son, Hannan Bros., 4614 N.E. 72nd, Vancouver, $413,452; Neukirch Bros., 745 Bellevue N., Seattle, $428,829. Nine bids.

FENCING, Renton to May Creek—Fencing 2.898 mi. PSH 1, King County; FAP I-B5-3 (28)159.

LOW BIDS: San Jose Steel Co., Inc., 131 W. Massachusetts, Seattle, $51,813; Anchor Post Products, Inc., 4502 14th N.W., Seattle, $54,418; Colorado Fuel & Iron Co., Inc., Box 1920, Denver, Colo., $55,230. Seven bids.

ILLUMINATION, Jct. PSH 1 to Ainsworth Ave.—Install illumination on 0.44 mi. SSH 5-G, Pierce County; FAS DS-0238(1) Unit 2.

LOW BIDS: Electric Construction Co. of Tacoma, Inc., 1650 Center, Tacoma, $15,888; Carl T. Madsen, 808 N. 12th, Tacoma, $16,837; Veca Electric, 521 Valley, Seattle, $17,700. Seven bids.

ASPHALTIC CONCRETE PAVING, E. 14th and E. 10th—Fort Vancouver Drive to Brandt Roads—Clearing, draining, grading, surfacing, asphaltic concrete paving 1.7 mi. Vancouver city streets, Clark County; FAS US-0609(1).

LOW BIDS: Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver, $165,925; K. F. Jacobsen & Co., Inc., 1107 N. Russel, Portland, Ore., $166,159; Erland & Blickle, Co., 8264 N. Brothwick, Portland, $171,720. Four bids.

BRIDGE, Canyon Creek—Reinforced concrete slab bridge on 0.002 mi. Whatcom County road; FAS S-0767(2).

LOW BIDS: Nelson Construction Co., Box 417, Ferndale, $16,558; Dick Villema & Associates, 218 S. 16th, Lynden, $19,462; Lee T. Dulin, Box 17, Kent, $19,811. Six bids.

BRIDGE, Harts Lake Loop Road - Horn Creek—Reinforced concrete precast slab bridge on 0.003 mi. Pierce County road; FAS S-13-4(1).

LOW BIDS: Sawyer Construction Co., Route 3, Box 298, Tacoma, $7,008; Ostruske-Murphy, Inc., 1515 Center, Tacoma, $7,900; Roger E. Holmes, Route 10, Box 493, Olympia, $9,292. Four bids.

PLANTMIX PAVING, Hansville Road—Bituminous plantmix paving 0.73 mi. Kitsap County road; FAS S-1259(1).

ONLY BID: North Kitsap Gravel and Asphalt Co., Inc., Route 2, Box 305, Poulsbo, $8,901.

STOCKPILING, Cle Elum River Vicinity—Stockpiling cement concrete pavement aggregate, surplus sand on PSH 2, Kittitas County; a State Project.

LOW BIDS: Ellensburg Cement Products, Inc., Box 27, Ellensburg, $69,390; R. H. Sussex, 2851 S.E. 124th, Bellevue, $77,945; S & S Sand & Gravel, 103 12th S.W., Ephrata, $79,916. Four bids.

MAINTENANCE BUILDINGS, Toledo—Prefabricated metal storage building and metal gas and oil shed, Lewis County; a State Project.

LOW BIDS: Hallidie Machinery Co., Inc., 210 Hudson, Seattle, $15,260; Pakar Construction Co., Box 447, Chehalis, $15,399; Max Ford, 112 Warden St., Snohomish, $16,580.

DE 9-17. Previous report 9-9

WATER, STREET IMPROVEMENTS— Pullman, Wash.

City Council, City Hall, Pullman, approved a preliminary budget for 1959 in amount of $377,000 for capital outlay for water system improvements and street widening. Major items in the water improvement plans include: 3,000,000-gal. reservoir, on Pioneer Heights, estimated cost $160,000; ditching and laying pipe (including pipe purchasing), estimated cost $38,000. Estimated cost for street widening is $50,000, which includes College Hill St. from Campus to California, and Monroe from Garfield to Colorado, Dexter and Side Sts in Pioneer Heights.

Local Improvement Districts have been applied for six sections of Pullman, primarily on Military, College and Sunnyside hills.

MH 9-13

●PUMPING UNITS— Radar Pumping Plant, Wash.

Bids to be opened October 16 by Bureau of Reclamation, Building 53, Denver Federal Center, Denver, Colo., for furnishing five motor-driven, horizontal, centrifugal - type pumping units for Radar Pumping Plant, Columbia Basin Project, Wash.; Inv. No. DS-5109. Delivery desired within 330 days.

Three units to have capacity of 37 cu. ft. per second at 275 ft. head; two units having capacity of 17.5 cu. ft. per second at 119 ft. head.

DM 9-12

▲GRADING, SURFACING— Renton, Wash.

Bids received by King County Commissioners, 402 County City Bldg., Seattle, for grading and surfacing one mi. on 140th Ave. S.E. (S.E. 192nd St. to Petrovitsky Road) in Section T. 23 N.R., 5 E.W.M., approximately four mi. southeasterly of Renton, King County.

Thirteen bids were received September 15. LOW BID: Anderson & Johnson, 11037 Roosevelt Way, Seattle, $23,996. 2ND LOW: The Helmick Co., 24300 Pacific Highway S., Kent, $25,496. 3RD LOW: J. J. Welcome Construction Co., 10206 Evanston Ave., Seattle, $27,960. The high bid was $40,849.

DM 9-16. Previous report 9-5

▲TEST WELLS— Richland, Wash.

Two bids received by U. S. Atomic Energy Commission, Box 550, Richland, for construction, drilling and casing eight test wells at two waste crib sites in the 200 West area, Hanford Works, Richland. Bids opened September 10. ONLY BIDS: Midland Drilling Co., Box 637, Walla Walla, $18,730; Artesian Well and Pump Co., Highway 15, Boise, Idaho, $23,847. Government estimate $25,315. Completion time 160 calendar days.

LB 9-12. Previous report 8-21

SEWER SYSTEM— Ridgefield, Wash.

A proposed bond issue in the amount of $165,000 was approved by voters in Ridgefield to finance a proposed sewer system for Ridgefield.

LC 9-16

▲SEWER— Seattle, Wash.

Bids received by Board of Public Works, E. G. Henry, 512 County City Bldg., Seattle, for construction of Delridge Way trunk sewer, to pick up sewage from existing and planned laterals and discharge it into West Waterway at Chelan Ave., later to be carried to North Trunk sewer for delivery to proposed West Point treatment plant; LID 6187. Contract is divided in to three schedules. Schedule 1 covers entire project, Schedules 2 and 3 cover the entire project, divided into two portions. Contractors had the option of bidding on any schedule.

Nine firms submitted bids September 10. SCHEDULE 1—LOW BIDS: Valley Construction Co., 7722 Rainier Ave., and Morrison-Knudsen Co., Inc., Hoge Bldg., joint venture, $726,999; S. S. Mullen, Inc., 220 River, $822,723. HI: National Construction Co., 153 S. 160th, $999,654. SCHEDULE 2—LOW BIDS: Valley Construction Co., and Morrison-Knudsen Co., Inc., joint venture, $350,684; Frank Coluccio Construction Co., 7778 Seward Park Ave., $357,374. HI: National Construction Co., $488,254. SCHEDULE 3—LOW BIDS: Argentieri & Colarossi, 1815 Jackson St., $388,698; Valley Construction Co., and Morrison-Knudsen Co., Inc., joint venture, $396,248. HI: National Construction Co., $506,892. Of Seattle.

PD 9-12. Previous report 9-3

●STORM SEWER— Seattle, Wash.

Bids will be opened 2 p.m., September 24, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle,

for construction of 3,235' of 12" to 30" reinforced concrete pipe sewer including 11 standard manholes and miscellaneous appurtenances on 24th Ave. N.W., et al; Ord. No. 87389.

Plans and specifications available on and after September 15, in room 404 County City Bldg., Seattle. $10 deposit. PD 9-12

★FURNISH GALVANIZED WIRE— Seattle, Wash.

Award to Maydwell & Hartzell, 306 Dexter Ave., Seattle, $3,597, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 50,000' galvanized guy wire.

PD 9-12. Previous report 9-10

●HANDHOLE FRAMES— Seattle, Wash.

Bids will be opened 10 a.m., September 22, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 10 handhole frames and covers. Specifications with above office. PD 9-12

●POWER SWEEPER— Seattle, Wash.

Bids will be opened 10 a.m., September 23, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one power sweeper. Specifications with above office. PD 9-12

▲FENCING— Seattle, Wash.

Bids received by Shoreline School District No. 412, E. 158th and 20th Ave. N.E., Seattle, for chain link fencing.

Four bids received at September 11 bid opening. LOW BID: Cyclone Fence Department, 1150 Fairview N., Seattle, $10,369. OTHER BIDS: El Dorado Fence Co., 1442 Trestle Glen, Oakland, Calif., $10,509; Anchor Post Products, Inc., 4502 14th N.W., Seattle, $10,836; Colorado Fuel and Iron Corp., 3434 2nd S., Seattle, $10,946.

PD 9-13. Previous report 8-30

METRO PLAN— Seattle, Wash.

A meeting will be held October 9 by representatitves of the 10 cities within the Metropolitan Municipal Corporation which was authorized in the September election. A Metro Council will probably borrow operating funds on a temporary basis from King County or from one of the cities, pending receipt of authorized funds. First consideration of the council will be detail designs and plans for two projected sewage treatment plants, one servicing most of Seattle and north county areas which will be located at West Point, and the other processing sewage from East Lake Washington and South Seattle which will be placed near Renton.

Completion of the $80,000,000 Metro program will require 10 years. Principal source of operating funds will be charges to cities and sewer districts for use of Metropolitan sewage disposal facilities. Brown & Caldwell, consulting engineers, Jones Bldg., Seattle, made the surveys for the Metro plan.

WC 9-13

▲EXCAVATOR UNIT— Seattle, Wash.

Six bids ranging from a low of $15,572 by Western Tractor & Equipment Co., 745 Lucile St., Seattle, to a high of $21,534 were submitted to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one truck mounted ⅜ c.y. excavator and/or crane base unit. Bids opened September 11.

2ND LOW: Air Mac, Inc., 3838 4th S., Seattle, $16,750. HI: Pacific Hoist & Derrick Co., 3200 4th S., Seattle, $21,534.

PD 9-12. Previous report 9-4

★REFLECTORS— Seattle, Wash.

Award to Westinghouse Electric Supply Co., 1051 1st S., Seattle, $6,360, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1,500 of 20" reflectors.

PD 9-16. Previous report 9-12

PARKS, PLAYGROUNDS— Seattle, Wash.

Projects that will be financed by a proposed $3,500,000 bond issue to be submitted to the voters in November 4 have been itemized by the Seattle Park Board. 1—playgrounds, playfields, $1,350,000, 2—lake and Puget Sound shore facilities, $1,125,000, 3—Woodland Park zoo, $600,000, 4—park improvements, $300,000, 5—land acquisition, $125,000. DM 9-16

▲TURBINE PUMP— Seattle, Wash.

Bids rejected by King County Water District No. 43, 2849 S. 150th, Seattle, for furnishing and installing deep well turbine pump (250-gal. capacity). A new bid call has been indefinitely delayed. Low bid was $2,283 by Fiese & Firstenberger, 809 Terminal Sales Bldg., Seattle.

PD 9-16. Previous report 8-20

●SEWAGE TREATMENT SYSTEM— Seattle, Wash.

Bids to be opened 3 p.m., September 25, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., (Box 90007), for construction of sewage treatment system and toilet room addition for RCAG facility at Seattle-Tacoma Airport, Seattle; Proposal 4-59-945. Plans with Los Angeles office. Completion time 21 calendar days. Building will be of concrete with built-up roofing. DM 9-17

■SITE CLEARING— Seattle, Wash.

Planholders announced on clearing site at 25th N.E. and E. 155th, Seattle, for the proposed Shoreline senior high school. Bids to be opened 2 p.m., September 30, by Shoreline School District No. 412, E. 158th and 205th N.E., Seattle. Plans by Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Planholders: Nelson Construction Co., 14330 30th N.E.; Excavators, Inc., 5756 29th N.E.; Thomas Scalzo Co., 3211 Airport Way; W. J. Halleran Construction Co., 2114 7th W.; John Patricelli, 1534 32nd S.; Whitehorse Engineering Co., 14231 51st S.; Mike Pitzl Bulldozing, 1107 Corwin Place; P. J. Anderson & Sons, 13501 Aurora Ave.; Anderson & Johnson, 11037 Roosevelt Way; I. M. Saimons, 16300 Meadow Road, Alderwood Manor; J. M. Bruch Co., Route 3, Box 504, Port Angeles; R. F. Roggenbuck, Route 1, Box 65, Vashon Island; Clarence P. Rife, 10838 108th, Kirkland; Issaquah Bulldozing, Box 715, Issaquah; Blossom Bros. Logging and Construction Co., Suquamish, Poulsbo; Ralph Byers, Box 144, Lynnwood. Of Seattle unless noted.

PD 9-17. Previous report 9-11

●APPROACH LIGHTING SYSTEM— Seattle, Wash.

Bids will be opened 2:15 p.m., P.S.T., September 29, by Civil Aeronautics Administration procurement branch, 5651 W. Manchester Ave., (Box 90007), Los Angeles, Calif., for installation of a new approach lighting system, Configuration "A", and a sequenced flasher lighting system on the A1S Structures off the south end of the North-South runway at the Seattle-Tacoma Municipal Airport, Highway 99, Seattle; Prop. No. 4-59-910. Bid bond 10%. Specifications with above office. Completion time 60 calendar days.

LB 9-17. Previous report 7-12

★SEWAGE TREATMENT FACILITIES— Seattle Defense Area, Wash.

Award to Wayne Construction Co., Inc., 3810 Stone Way, Seattle, $25,943, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of 700' of 8" sewer main, six 6" service laterals from existing septic tanks to sewer main, a sewage treatment plant for sewage from 12 residences, about 100' of chain link fencing and gravel surfaced driveway, Seattle Defense Area, Cougar Mountain; ENG-45-108-59-2.

DM 9-12. Previous report 9-6

●RIPRAP— Snohomish County, Wash.

Bids to be opened 10 a.m., September 26, by Soil Conservation District, Snohomish, for placing 820 c.y. rock riprap on left bank of Koch's Slough in northwest quarter of Section 12, Township 31, North Range 5, East W.M., on the Husby property; River Maintenance Agreement No. 120-58. Plans with the Soil Conservation District in Snohomish or in Arlington. $2 charge. Certified check 5%. DC 9-13

WATER MAINS, SEWER—Sunnyside, Wash.

The Sunnyside City Council has adopted a budget for 1959 in the amount of $688,294 total. Part of that amount will be used to construct water mains, estimated at $72,370 and sewer construction and extension, estimated at $62,741. MH 9-12

●RELOCATE, INSTALL FENCE— Tacoma, Wash.

Bids will be opened 2 p.m., P.S.T., September 26, by 13th Naval District, district public works officer, room 107B, Bldg. 250, U. S. Naval Station, Seattle, for relocating an existing chain link fabric fence approximately 485' and 7' high and providing and installing a new fence in addition to the reinstalled fence; U. S. Naval and Marine Corps Reserve Training Center, Tacoma; Spec. 18389/58. Work involves concrete work and fencing. LB 9-12

★ASPHALTIC CONCRETE PAVING— Tacoma, Wash.

Awards announced by City Clerk, 305 City Hall, Tacoma, for regrading, asphaltic concrete paving, concrete curbs and gutters on S. 9th and G St. intersection (LID 4645), and for asphaltic concrete paving, concrete curb and gutter, and storm drainage on seven city streets (LID 4738). AWARDS—LID 4645: George Madsen Co., 3101 S. Lawrence, Tacoma, $9,984. LID 4638: George Madsen Co., Tacoma, $40,146.

LB 9-12. Previous report 8-26

★SPILLWAY, PIPE LINING— Tacoma, Wash.

Award to Frank Coluccio, 7778 Seward Park Ave., Seattle, $231,600 (steel and concrete pipe), by City Clerk, City Hall, Tacoma, for construction of a 3,600' spillway line near McMillin Reservoir, Pierce County, about 16 mi. southeast of Tacoma. Bids opened September 2. Award has not yet been make on placing cement-mortar lining on 6,000' of 32" steel pipe located on E. D St., and E. 15th St. in Tide Flats area in Tacoma. LB 9-16. Previous report 9-3

★CONCRETE WORK— Tacoma, Wash.

Award to R. J. McCarthy, 17860 Ballinger Way, Seattle, $24,015, by City Council, City Hall, Tacoma, for construction of reinforced concrete jacket around existing well pier retaining walls, valve chamber and appurtenances near the water division Purification Plant about 42 mi. east of Tacoma. Bids opened September 2.

LB 9-16. Previous report 9-3

▲PAVING— Tacoma, Wash.

Two bids received by Pierce County Commissioners, Courthouse, Tacoma, for reconstruction of intersection of the new Day Island Road and Island Blvd. at southerly end of Day Island, consisting of regrading, draining, asphaltic concrete paving; CRP No. 1726. Bids opened September 16. ONLY BIDS: Asphalt Paving & Engineering Co., Box 356, South Tacoma, $10,139; Woodworth & Co., 1200 E. D St., Tacoma, $10,745.

LB 9-17. Previous report 9-11

▲FIRE HOSE— Vancouver, Wash.

Six bids received by City Purchasing Agent, Municipal Bldg., 712 Washington St., Vancouver, for 1,350' of fire hose in 50' lengths, fob Vancouver. Bids opened September 10. TWO LOW: Goodyear Rubber & Asbestos Co., 205 N.W. 5th Ave., (2½") $1.34 per foot; (1½") $.86; Empire Rubber & Supply Co., 714 N.E. 1st Ave., $1.37; $.91. HI BID: Munnell & Sherrill, 1163 N.E. 63rd Ave., $1.44; $1.06. All of Portland. WB 9-12

●SEWER— Walla Walla, Wash.

Bids to be opened 10 a.m., October 1, by City Commissioners, City Hall, Walla Walla, for construction of 6,220' of 8" sewer; 4,000' of 4" side sewer; 10,220' of excavation and backfill; 9 manholes between 2nd and 3rd et al. Specifications with above office.

LC 9-16

▲PUMPING ENGINE— Wenatchee, Wash.

Bids rejected by City Council, City Hall, Wenatchee, for furnishing 1250 GPM two stage, centrifugal combination pumping engine. Bids opened August 25. City Council will readvertise for bids soon.

LB 9-12. Previous report 8-9

●GRADING— Wenatchee, Wash.

Bids will be opened 10 a.m., P.S.T., October 10, by Chelan County Public Utility District No. 1, 327 N. Wenatchee Ave., Wenatchee, for performing east bank switchyard grading work for the Rocky Reach Hydroelectric Power Project. Specifications with Stone & Webster Engineering Corp., 707 Lloyd Bldg., Seattle. LC 9-12

★RAILROAD, ROADS— Wenatchee, Wash.

Award to Donald M. Drake Co., 1600 N.W. Savier, Portland, Ore., $3,832,177, by Chelan County Public Utility District No. 1, 327 N. Wenatchee Ave., Wenatchee, for second phase of highway and railway relocation involving 11 mi. roadbed grading for Great Northern Railway's line, nine mi. grading for highway, construction of railroad yard, grading at new Entiat townsite, all part of development for Rocky Reach hydorelectric power project. DM 9-16. Previous report 8-23

●WATER WELLS— Yakima, Wash.

Bids to be opened 10 a.m., October 18, by City Council, City Hall, Yakima, for construction of two domestic, combination exploratory-production water wells. Casing shall be new standard black steel pipe. Plans with city clerk or city engineer. $10 deposit. Sched. 1, Well No. 4, Kiwanis Park—estimated depth of 600' with 24" to 12" diam. casing. Sched. 2, Well No. 5, Airport—estimated depth of 600' with 24" to 12" casing. DM 9-16

UNDERGROUND ELECTRICAL LINE— Yakima, Wash.

Project postponed until further notice for relocation of the overhead primary line to underground at the Yakima Firing Center in Yakima; Inv. No. AVI-45-016-59-14. Bids were opened September 12 by Department of Army, purchasing and contracting office, Fort Lewis. LB 9-16. Previous report 8-19

★GRADING, SURFACING— Yakima, Wash.

Award to DeAtley Paving and Crushing Co., Extension of N. 16th Ave., Yakima, $18,179, by Yakima County Commissioners, Courthouse, Yakima, for grading and surfacing 0.30 mi. of N. 63rd Ave., Road Improvement District No. 10, Yakima. IG 9-17. Previous report 9-13

IDAHO

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids to be opened 2 p.m., October 7, by Department of Highways, 603 Main, Boise, on a highway construction project. Plans with above office. $5 charge.

STRUCTURES, SURFACING, Truchot Road-South Blackfoot IC — Constructing four-lane divided roadway, drainage structures, 2" maximum crushed gravel base, three concrete underpasses and two 23' bridges on 2.984 mi. of Interstate Highway No. 15, Bingham County; FAP I-15-2(2)84. Quantities: 169,825 c.y. unclassified excavation; 312,500 c.y. borrow; 206,000 Y.U. haul; 63,100 ton crushed gravel base 2" max.; 3,490 c.y. select borrow. DM 9-17

●STATE HIGHWAY PROJECTS— Boise, Idaho

Bids to be opened 2 p.m., September 30, by Department of Highways, 603 Main, Boise, on highway construction projects. Plans with above office. $5 charge.

PLANTMIX PAVING, Salmon - Baker, Baker-High Bridge, and 5 mi. south of Salmon—Reconstructing roadway, plantmix bituminous paving 8.504 mi. State Highway 28, Salmon-Baker, FAIP S-7873(3), seal coating 12.6 mi. of State Highway 28, Baker-High Bridge, ST-M-7873(504), reconstructing roadway and bituminous surfacing on 0.822 mi. U.S. 93, five mi. south of Salmon, ST-6354(508), in Lemhi County.

Quantities: S-6873(3—26,000 c.y. borrow; 53,350 ton crushed gravel base course; 39,000 gal. MC-2 asphalt road material; 940 ton 120-150 pen. asphaltic road material for plantmix; 1,125 ton blotter material, class A; 18,740 ton plantmix bituminous surfacing. ST-M-6873(504)—63,000 gal. RS-2 asphaltic road material; 2,630 ton cover coat material class 3. ST-6354(508)—14,400 c.y. unclassified excavation; 9,350 ton crushed gravel base course; 3,900 gal. each of MC-2 and MC-5 asphaltic road material; 70 ton blotter material class C; 170 ton cover moat material class 3; 2,200' wire fence.

SURFACING, BRIDGE, Virginia-Hawkins Ext.—Constructing roadway, crushed gravel base and 28' concrete bridge on 1.76 mi. Robin-Hawkins Road, Bannock County; FAP DS-1754(3), S-175(4).

Quantities: 28,200 c.y. unclassified excavation; 5,520 c.y. crushed gravel base course; 49 c.y. concrete; 8,600 lb. metal reinforcing.

ROADMIX, CULVERT, Amity Road—Construct roadway, roadmix bituminous surfacing, 16' concrete culvert on 4.006 mi., Ada County Line-Junction FAS 3782 section in Ada County; FAIP S-3764(1), DS-3764(2).

Quantities: 4,345 c.y. excavation; 21,575 ton crushed gravel base course; 315 ton MC-3 asphaltic road material; 16,100 gal. RC-5 asphaltic road material; 6,800 lb. metal reinforcing. DM 9-17

AIRPORT RUNWAY REPAIR— Coeur d'Alene, Idaho

Bids may be called again in 1959 by Board of County Commissioners, Kootenai County Courthouse, Coeur d'Alene, for repairing about 150,000' of runways and taxiways at Kootenai County Airport. LB 9-12. Previous report 8-15

SEWAGE DISPOSAL SYSTEM— Deary, Idaho

A bond issue in the amount of $60,000 will be placed on the November 4 election ballot by the Village Board of Trustees, Deary, to finance a sewage disposal system. Peter G. Leriget, attorney, New Creighton Bldg., Moscow, was retained to give legal advice. MH 9-17

DREDGING AIRPORT— Florence Basin, Idaho

The Idaho Mining and Milling, Inc., 504 16th Ave., Lewiston, plan to dredge and construct an airport in the Florence Basin, Idaho County, by spring of 1959. MH 9-12

▲FENCING— Idaho City, Idaho

Six bids received and subsequently rejected by Boise County Recorder, Courthouse, Idaho City, for construction and installation of about 11 mi. of four-strand wire fencing along the road right-of-way at Garden Valley-Crouch, Idaho. Bids opened September 8. LOW BIDS: Glenn C. Sackett, Star $1.15 per post; J. G. Prokesh, 1105½ Longmont Ave., Boise, $1.35 per post. HI: Andra C. Burns, Meridian, $1.50 per post. LB 9-12. Previous report 8-20

●CLEARING, GRADING, DRAINING— Idaho County, Idaho

Bids will be opened 2 p.m., M.S.T., September 30, by U.S. Forest Service, regional forester, room 1036, Federal Bldg., Missoula, Mont., for clearing, grading, draining, and surfacing of 2.537 mi. of roadway, Big Elk Creek Road No. 646 (section A), Nezperce National Forest, Idaho County; Inv. No. 80-59. Specifications with above office. 5% bid guarantee.

Quantities: 23 acres clearing, grubbing; 91,000 c.y. unclassified excavation; 130 c.y. same, for structures (culverts); 5,000 sta. yds. overhaul; 2,000 c.y. mi. same; 13,200 c.y. crushed gravel or crushed stone base course, grading B; 3,710 same, surfacing, grading D; 700 c.y. same, in stockpile; 1,760' of 18", 230' of 24" and 52' of 30" corrugated metal pipe or standard strength reinforced concrete culvert pipe; 36' of 58"x36" corrugated metal pipe arch; 2 cattle guards. LB 9-12

★SEWAGE TREATMENT PLANT— Idaho Falls, Idaho

Award is pending on construction of a sewage treatment plant in Idaho Falls. Bids were opened by City Council, City Hall, Idaho Falls. Plans by Cornell, Howland, Hayes & Merryfield, consulting engineers, 628 Idaho Bldg., Boise.

At the August 26 bid opening, the low bidder was Davis Construction Co., Box 326, Provo, Utah, with a bid of $410,251, for aerated clarifier, and $398,707 with standard clarifier. LB 9-12. Previous report 8-30

●CRUSHED AGGREGATE—Lewiston, Idaho

Bids will be opened 7:30 p.m., September 29, by City Controller, City Hall, Lewiston, for 10,000 tons of crushed aggregate in stockpile. Stockpile site is located on the north side of 16th Ave. and west of 7th St. Specifications with city engineer, above address. 5% bid bond, or certified check. LC 9-16

WATER SUPPLY— Moscow, Idaho

Ebasco Services, consulting engineers, 611 Equitable Bldg., Portland, has been retained by the City of Moscow, Spencer Lewis, mayor, Moscow, to make a study of future water supply for the city and the University of Idaho. The existing supply is from wells. Both University wells were nearly dry this summer; the city wells were reported to be none too adequate.

The University of Idaho has studied the possibility of obtaining water from the Moscow Mountains watershed, and the engineers will consider that source along with others. WB 9-16

★MODIFY WATER ALCOHOL SYSTEM— Mountain Home AFB, Idaho

Award to Nottingham Construction Co., Box 1545, Boise, $1,935, by U. S. Air Force, procurement office, Mountain Home AFB, for modifying water alcohol system, Mountain Home Air Force Base; IFB 10-603-59-13. LB 9-12. Previous report 9-6

●SEWAGE SYSTEM, TREATMENT PLANT— Pocatello, Idaho.

(Estimated cost $1,200,000)

Bids to be opened 10 a.m., October 7 by City Council, City Hall, Pocatello for construction of sewage treatment plant and trunk lines. Plans with Hamilton & Voeller, consulting engineers, 110 N. 2nd, Pocatello.

Contract involves: 1—construction of sewage treatment plant, 2—installing about 29,580' of 42" trunk line and interceptors to feed the plant and about 20,000' of new trunk lines. The plant will be built at Rio and Vista and Batiste Roads, west of the city. The extension of the main trunk sewer will be from the present outfall on Portneuf River to the plant, and the trunk sewer will be from Day and Harrison to S. 5th and Fredregill Road. DC 9-13. Previous report 8-12

MONTANA

★STORM SEWER— Billings, Mont.

Award to Holm Sutherland Co., 19 Foster Lane, Billings, $7,522, by City Clerk, City Hall, Billings, for installing storm sewer on Aves. D and F from 10th to 12th sts. W., SID No. 726, Van Bramer subdivision and Suncrest Acres in Billings. Bids opened September 9. EE 9-16. Previous report 8-20

★PAVING ALLEY— Billings, Mont.

Award to Long Construction Co., Lockwood Flats, Billings, $5,670, by City Council, City Hall, Billings, for paving alley between Central and St. Johns avenues and 5th and 6th sts. W., block 26, Yellowstone Addition, 2nd filing, SID No. 727. Bids opened September 9. EE 9-16. Previous report 8-20

SEWAGE LAGOON— Deer Lodge, Mont.

Approval was given by voters in Deer Lodge for a $165,000 bond issue to finance construction of a sewage lagoon. MH 9-17

▲PENSTOCKS, TUNNEL LINER— Fort Peck Dam, Mont.

Award is still pending on fabrication and erection of penstocks, tunnel liner and surge tanks for a second power plant at Fort Peck dam and reservoir, Sched. 2; Inv. No.. CIV-ENG-58-41. Bids were opened August 28 by Corps of Engineers, Garrison District, Riverdale, N. Dak. LOW BID: Chicago Bridge & Iron Co., 550 W. 17th St., Salt Lake City, Utah, $4,624,100. Government estimate, $8,263,295. DM 9-13. Previous report 7-29

★**SEWER AND WATER LINES—** **Great Falls, Mont.**

Award to Falls Construction Co., 25th and River Drive, Great Falls, $36,979, by Fred L. Hill, City Clerk, Civic Center, Great Falls, for furnishing materials and constructing sewer and water lines to serve a portion of Block 4 and all of Block 5, Section One, Valley View Homes Addition, in SID 956. Bids opened September 2.
LB 9-16. Previous report 8-17

▲**GRADING, BRIDGES—** **Helena, Mont.**

Eleven bids received by Bureau of Public Roads, in the Scott-Hart Annex, State Highway Bldg., 8th Ave. and Roberts St., Helena, for grading, 7.733 mi. and constructing three 22′ and one 41′ reinforced concrete and timber bridges on Bitterroot-Big Hole Highway, Bitterroot, Beaverhead and Salmon National Forests, Ravalli and Lemhi counties, in Montana and Idaho; Mont. FHP 20-A and Idaho FHP 49-A. Bids opened September 10. LOW BIDS: Union Credit, 17 E. Galena St., Butte, $296,440; Dillsworth Construction Co., Inc., Lalonde Bldg., Helena, $316,402; Kiely Construction Co., East of Butte, $335,642. Government estimate, $357,034.
WB 9-12. Previous report 8-30

▲**STATE HIGHWAY PROJECTS—** **Helena, Mont.**

Bids were opened September 12 by Montana State Highway Commission, Helena, on 12 highway construction projects.

PLANTMIX SURFACING, OVERPASS, Shelby-West Side Road—Grading, plantmix surfacing, seal coat oiling, draining, constructing 276′ steel interchange and 360′ combination steel railroad overpass concrete interchange on 5.623 mi. in Toole County; I-IG-ING 15-8(3)351.

LOW BID: S & S Contracting Co., 1300 Chicago St., Butte, $1,793,112.

PLANTMIX BITUMINOUS SURFACING, Terry-Glendive and Towne St. and Merrile Ave.-Glendive Road—Grading, plantmix bituminous surfacing oiling, draining 2.670 mi. in Dawson County; U 121(3), F 130(15) Unit 1.

LOW BID: Schye & Sullivan, White Sulphur Springs, Mont., $621,693.

PLANTMIX BITUMINOUS SURFACING, Philipsburg-Anaconda Rd.—Grading, plantmix bituminous surfacing oiling, draining 2.255 mi. in Deer Lodge County; F 164(10), DF 164(12).

LOW BID: S. S. Mullen, Inc., 646 Holgate, Seattle, Wash., $414,863.

PLANTMIX BITUMINOUS SURFACING, Armington-Lewistown Road—Grading, plantmix bituminous surfacing, oiling, draining 5.283 mi. in Cascade County; F 235(26) Unit 1.

LOW BID: S. Birch, Inc., and S. Birch & Sons Construction Co., Ford Bldg., Great Falls, $740,564.

BRIDGES, Armington-Lewistown Road—Nine concrete structures, two 91′ bridges, four 101′ bridges, two 118′ bridges, one 123′ bridge over Otter Creek, Cascade County; F 235(26) Unit 2.

LOW BID: C. B. Lauch Construction Co., 5404 Cedar, Boise, Idaho, $336,280.

BITUMINOUS SURFACING, Garrison-Helena Rd.—Grading, bituminous surface treatment, oiling, draining 2.613 mi. in Powell County; F-FG 249(11).

LOW BIDS: Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata, Wash., $430,982.

PLANTMIX BITUMINOUS SURFACING, Circle-Sidney Rd.—Grading, plantmix bituminous surfacing, oiling, draining 9.669 mi. in Dawson; DF 391(9) Unit 1 and F 391(10) Unit 1.

LOW BID: Roth Construction Co., Rapid City, S. Dak., $572,121.

TIMBER BRIDGES, Circle-Sidney Rd.—Two 88′ and one 57′ treated timber structures in Dawson County; DF 391(9) Unit 2 and F 391(10) Unit 2.

LOW BID: Holm Construction Co., Glendive, Mont., $49,075.

ROADMIX BITUMINOUS SURFACING, Helmville-Ovando Road—Grading, roadmix bituminous surfacing, oiling, draining 6.754 mi. in Powell County; DS 37(4) DS 37(5). Project withdrawn.

BITUMINOUS SURFACING, Fairfield-Power Road—Grading, bituminous surface treatment, draining 6.003 mi. in Teton County; S 223(1) Unit 1.

LOW BID: O'Brien Construction Co., Black Eagle, Great Falls, $268,139.

TIMBER BRIDGES, Fairfield-Power Rd.—Two 57′ treated timber bridges in Teton County; S 223(1) Unit 2.

LOW BID: Robinson & Shepherd Construction Co., 208 28th N., Great Falls, $18,804.

GRADING, DRAINING, Chester - South Road—Grading, draining 0.189 mi. in Liberty County; S 303(3).

LOW BID: O'Neil Construction Co., Havre, $28,964.
DM 9-13. Previous report 8-27

★**LATERALS—** **Helena, Mont.**

Award to Contractors and Excavators, Inc., and Zuber Bros. Contractors, Box 12, Warden, Wash., $185,910, by Bureau of Reclamation, Box 551, Helena, for construction of about 11.5 mi. of unlined laterals in the Spokane Bench area of Helena Valley unit, Helena-Great Falls Division, Missouri River Basin Project, near Helena; Spec. No. DC-5076.
LB 9-16. Previous report 9-4

★**HUBBART DAM—** **Hot Springs, Mont.**

Award to Rolfson Co., 508 2nd Ave. E., Polson, $95,195, by Bureau of Indian Affairs, 802 N. Billings, for the Camas Division of Flathead Indian Irrigation Project, St. Ignatius, for rehabilitation of Hubbard Dam, located about 20 mi. north of Hot Springs, Mont. Work involves drilling and grouting area around dam abutments, sealing, clearing, general repairs.
DM 9-16. Previous report 8-27

ROAD CONSTRUCTION— **St. Regis, Mont.**

Construction planned by C. G. Bennett Lumber Co., St. Regis, for five mi. of system road and 17 mi. of spur road in the St. Regis ranger district of the Coeur d'Alene National Forest (Idaho - Montana County Line).
MH 9-12

▲**SEWER, WATER LINES, TANK—** **Westby, Mont.**

Bids received by City Council, Westby, for constructing sewer and water lines and furnishing elevated water tank. BIDS—WATER, SEWER SYSTEM: Elmer Johnson, 530 2nd Ave. N., Glasgow, $33,636; Kalleig Bros., Sidney, $35,093; L & S Improvement Co., Williston, N. Dak., $37,329. TANK: Pittsburgh-Des Moines Steel Co., 500 Wall, Seattle, Wash., $21,985; Chicago Bridge and Steel Co., Chicago, Ill., $22,425. Plans were prepared by Wenzel & Co., consulting engineers, 3212 10th Ave. S., Great Falls. LC 9-12

ALASKA

★**HYDROELECTRIC POWER PLANT (Road, Tunnel, Intake Structure)—** **Cooper Lake, Alaska**

Award to Marwell Construction Co., Inc., and Foster-Saunders Co. (joint venture), 1312 10th Ave., Anchorage, $2,260,063, by Chugach Electric Association, 8th and Gambell, Anchorage, for construction of eight mi. of gravelled road; 5,000′ of 12″ diameter, mostly unlined, horse-shoe shaped tunnel, and concrete intake structure, the first phase of the Cooper Lake Hydroelectric Project on Kenai Peninsula, Alaska. Plans by North Pacific Consultants, consulting engineers, 220 S.W. Alder St., Portland, Ore., and Airport Cafe Bldg., Anchorage, Alaska.
DC 9-13. Previous report 9-11

●**WELL, SEWER—** **Delta Junction, Alaska**

Bids will be opened for the second time 1 p.m., P.S.T., September 22, by U. S. Army Alaska Communication System, contracting officer, room 421, Federal Office Bldg., Seattle, Wash., for excavating, trenching, filling and backfilling necessary for the construction of a leaching well, connecting sewer with steam tracer, underground conduits and installation of utilities at Delta Junction, Alaska; SC 45-041-59-4. Specifications with Seattle office.

Bids were previously opened on September 3, but all bids were rejected. Low bidder at that time was Nillson Builder Suply Co., Mile 1421 Alaska Highway, Delta Junction, $9,385.
LB 9-12. Previous report 9-4

■**DREDGING—Dry Pass, Rock Pass, Alaska**

Planholders announced for dredging at Dry Pass involving 126,000 c.y. common excavation, 19,560 c.y. ledge rock excavation, dredging in Rocky Pass consisting of 12,296 c.y. common excavation, 4,880 c.y. ledge rock excavation. Bids will be opened 2 p.m., A.S.T., September 25, by Corps of Engineers, Alaska District, Box 1288, Anchorage. Addendum No. 1 has been issued making changes in the specifications.

Planholders: Manson-Osberg Construction Co., 1132 128th St., Seattle, Wash.; McGray Marine Construction Co., 2370 Fairview Ave. N., Seattle; General Construction Co., Box 3845, Seattle; Puget Sound Bridge & Dredging Co., 2929 16th Ave. S.W., Seattle; Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam, Wash.; Ben C. Gerwick, Inc., 417 Market St., San Francisco, Calif.; Willamette Tug & Barge Co., Foot of N. Portsmouth Ave., Portland, Ore.; Western Contracting Corp., Sioux City, Iowa; Ramstad Construction Co., Box 1454, Anchorage; C. W. Metchell Co., 305 E. 13th Ave., Anchorage.
LB 9-16. Previous report 8-28

●**SECURITY FENCING—** **Juneau, Alaska**

The bid opening for furnishing and erecting security fences around antennas No. 1, 2 and 3 at the Communication System CAA CT Transmitter Site, in Juneau, scheduled for October 1 by U.S. Army Alaska Communication System, room 421 Federal Office Bldg., Seattle, Wash., has been cancelled. Inv. No. SC 45-041-59-3.
LB 9-16. Previous report 9-11

★**GRADING, PAVING—** **Juneau, Alaska**

Award to S.S. Mullen, Inc., Box 3886, Terminal Annex, Seattle, Wash., $80,287, by Bureau of Public Roads, Juneau, for grading and bituminous paving 1.3 mi. Phillips Field Road between Steese Highway and the New Alaska Railroad Depot at Fairbanks, and paving 42,000 sq. ft. of Alaska Railroad Deport area; Proj. DC-6321(3).
JU 9-17. Previous report 9-10

●**MODIFY TANK SYSTEM—** **King Salmon AFB, Alaska**

Bids will be opened 10 a.m., October 1, by U. S. Air Force, base procurement office, Bldg. T22-057, Elmendorf AFB, for modification of POL Tanks system at King Salmon Air Force Station, Alaska; IFB 65-501-59-38. Specifications with above office.
AL 9-12

●**INSTALL DISTRIBUTION SYSTEM—** **Ladd AFB, Alaska**

Bids will be opened 10 a.m., A.S.T., September 24, by U. S. Air Force, base procurement office, Ladd AFB, for installation of an aerial electrical distribution system to Birch Hill, Ladd Air Force Base; IFB 65-500-59-40; Specifications with above office. Bid guarantee 20%.
LB 9-12

▲**RADOME TOWER—Shemya Island, Alaska**

Bids received by Corps of Engineers, Alaska district, 1519 S. Alaskan Way, Seattle, for erection of government furnished radome tower building, Arctic type including lighting facilities; construction of 25′x50′ corrugated sheet metal addition to tower and 25′x91′ utility building; installation of water systems, underground steam and electrical systems, all on Shemya Island; ENG 95-507-59-19.

Five bids received September 16. BIDS: Baker & Ford, Box 1010, Fairbanks, $459,111; Beck, McLaughlin & Associates, Box 1632, Anchorage, $490,462; Chris Berg, Inc., 2730 Westlake Ave. N., Seattle, Wash., $568,700; Adak POL Contractors, Box 1039, Anchorage, $645,100; American Services, Inc., Box 915, Anchorage, $723,000. Government estimate $498,075.
LB 9-17. Previous report 9-11

●**BRIDGES—** **Sitka, Alaska**

Bids to be opened 11 a.m., P.S.T., October 7, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for construction of two bridges located about 4.5 and 7 miles northwest of Sitka on the Sitka Highway; Proj. AFH 11-E1. Plans with engineers, 311 Federal Bldg., Juneau. Bid guaranty 5%.

Quantities: furnish 1,400' structural steel piles 10BP42, drive 38 structural steel piles 10BP42; 249.3 c.y. class A concrete; 47,160 lb. reinforcement steel, intermediate grade. Bridges will be at Granite Creek and Station 335+00 near Sitka. DM 9-16

NORTHERN CALIFORNIA

▲RUNWAY PRIMARY APPROACH LIGHTING— Beale AFB, Calif.

Bids received September 11 by Corps of Engineers, Wright Bldg., Sacramento, for approach lighting system on runways at Beale Air Force Base, Yuba County; ENG-04-167-59-11. LOW BIDS: Newberry Electric Corp., 748 S. 17th St., Richmond, $231,314; Action Contractors, Inc., 572 Bosworth St., San Francisco, $232,871; Collins Electrical Co., Inc., 611 W. Fremont St., Stockton, $234,414. Government estimate $271,308.
RM 9-20. Previous report 9-6

★LEVEE— Colusa, Calif.

Award to H. Earl Parker, Inc., 12th and F Sts., Marysville, $672,632, by Corps of Engineers, 1209 Eighth St., Sacramento, for levee construction, right bank Sacramento River, between Colusa and Knights Landing, Colusa and Yolo counties, Calif.; CIVENG-04-167-59-2. Bids opened September 4. Government estimate $632,013.
RM 9-20. Previous report 8-16

●RAMP, HANGAR ELECTRIFICATION— Hamilton AFB, Calif.

Bids will be opened 2 p.m., PST, September 30, by Corps of Engineers, 180 New Montgomery St., San Francisco, for addition of power outlets and associated primary and secondary equipment including interior and exterior electrical distribution systems, trenching, removal and replace of airfield pavements, chain link fencing, incidental work, Hamilton Air Force Base, Marin County, Calif., ENG-04-203-59-8. Specs with above address. Bid bond 20%. Completion 150 days.
RM 9-20

★PRIMARY APPROACH LIGHTING— Mather AFB, Calif.

Award to Altermatt-Action Ventures, Inc., 572 Bosworth St., San Francisco, $247,079, by Corps of Engineers, 1209 8th, Sacramento, for primary approach lighting, Mather Air Force Base, Sacramento County, Calif.; ENG-04-167-59-9. Bids opened September 9. Government estimate $279,457.
RM 9-20. Previous report 8-30

★GRADING, PAVING, UTILITIES— Oakland, Calif.

Award to Theo G. Meyer & Sons, 200 Quint St., San Francisco, $59,445, by Corps of Engineers, 180 New Montgomery St., San Francisco, for offsite facilities for 88 Capehart Housing Units, Oakland Army Terminal, Alameda County, Calif.; ENG-04.203-58-351.
RM 9-20. Previous report 6-28

★STEEL PIPE— Oakland, Calif.

Awards announced by East Bay Municipal Utility District, 2130 Adeline St., Oakland, for furnishing 40,200' of cement mortar lined and coated electric welded steel pipe, various dimensions. AWARDS: Armco Drainage & Metal Products, Inc., 2180 Milvia St., Berkeley, $62,112 (Schedules 1 and 2); Southern Pipe & Casing Co., Division U. S. Industries, Inc., Box C, Azusa, $66,793 (Schedules 3 and 4).
RM 9-20. Previous report 9-6

★OFFSITE FACILITIES— Petaluma, Calif.

Award to Cleverdon Co., Inc., 3603 Happy Valley Rd., Lafayette, $24,720, by Corps of Engineers, 180 New Montgomery St., San Francisco, for constructing offsite facilities for 24 Capehart Housing units, Two Rock Ranch Station, near Petaluma, Sonoma County; ENG-04-203-59-1.
RM 9-20. Previous report 7-26

★GROUNDS IMPROVEMENT— Placerville, Calif.

Award to James P. Morton Construction Co., Box 548, Placerville, $33,543, by State Department of Public Works, Public Works Bldg., Sacramento, for grounds improvement at armory, Placerville, El Dorado County.
RM 9-20

★SANITARY SEWERS— Redding, Calif.

Award to Oakland Sewer Construction Co., 9915 Walnut St., Oakland, by City Council, City Hall, Redding, for sanitary sewer improvements, Sunset Terrace Unit No. 8, Sewer Assessment Dist. 1958-1, Redding. The firm submitted the low bids of $38,604 for vitrified clay sewer pipe and $39,788 for asbestos cement sewer pipe at the August 28 bid opening.
RM 9-20. Previous report 9-13

★STATE HIGHWAY PROJECT— Sacramento, Calif.

Award to O. C. Jones and Sons, 1520 Fourth St., Berkeley, $208,571, by State Department of Public Works, Public Works Bldg., Sacramento, for grading and surfacing a storage area, U. S. Naval Air Station, Alameda; IV-ALA-226-ALA. Bids opened September 3.
RM 9-20. Previous report 9-6

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened August 13.

I-HUM-FAS 972—Bridge approaches, approach roadways, across Moseley Slough, 3.5 mi. west of Loleta, Humboldt County. AWARD: Walter Lenkeit, 2321 24th Ave., San Francisco, $46,290.

X-MPA-966 — Grading, untreated base, drainage structures, 3.5 mi., State Rt. 18 to Bear Creek, Hornitos Rd., Mariposa County. AWARD: O. K. Mittry and Sons, 15905 S. Broadway, Gardena, $157,683.

IV-SON-1218—Grading, plantmix surfacing, 0.5 mi. two-lane highway, Madrone Rd. from east of Arnold Drive to State Rt. 51, Sonoma County. AWARD: Franklin W. Serres, 16060 Sonoma Highway, Sonoma, $47,997.
PB 9-20. Previous report 8-16

▲STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids received September 17 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects.

IV-SCL-5-SJS,D—Grading, portland cement concrete paving on cement treated subgrade, plantmix surfacing on cement treated base and untreated base, seven bridges, two pumping plants, electrical systems, 2.5 mi. four-lane divided highway with ramps, connections and frontage roads between Bascom Ave. and N. Fourth St., Santa Clara County.

LOW BIDS: Gordon H. Ball, 300 Camille Ave., Danville, $2,959,006; Fredrickson & Watson & Ransome Co., 873 81st Ave., Oakland, $3,025,555; Peter Kiewit Sons' Co., 345 Kieways Ave., Arcadia, $3,149,243.

IV-MRN-1, A, SRF—Grading, plantmix surfacing on cement treated base over untreated base, 1.1 mi. additional southbound lane with connections, and revise existing bridge parapet, between 0.2 mi. south of Forbes Station Overhead and 0.2 mi. south of Lincoln Ave. undercrossing, Marin County.

LOW BIDS: Brown-Ely Co., Contractors, 7360 Schmidt Lane, El Cerrito, $116,727; E. A. Forde Co., Box 306, San Anselmo, $121,744; Charles L. Harney, Inc., 575 Berry St., San Francisco, $123,608.

I-MEN-1, 48-LA—Repairing storm damage by grading, plantmix surfacing on cement treated base and untreated base, installing drainage facilities, 1.1 mi., between 1.3 mi. and 2.4 mi. north of Sonoma County line and between 4.8 mi. and 5.3 mi. southeast of Boonville, Mendocino County.

LOW BIDS: Stecker & Scott, 2110 W. Magnolia Blvd., Burbank, $336,901; Syar & Harms, 5261 Stockton Blvd., Sacramento, $347,543; Granite Construction Co., Box 900, Watsonville, $379,646.

I-MEN-1-D, E—Repair storm damage by installing drainage facilities, grading roadway, plantmix surfacing on cement treated base and imported subbase material between 2.5 mi. north of Forsythe Creek and 5 mi. south of Willits, Mendocino County.

LOW BIDS: Arthur B. Siri, Inc., 1357 Cleveland Ave., Santa Rosa, $250,715; Granite Construction Co., Box 900, Watsonville, $287,721; McCammon-Wunderlich, Box 359, Palo Alto, $319,883.

IV-ALA-69-BER, ALB—Prepare and plant 0.8 mi. roadside areas between Virginia St. and Albany in Berkeley and Albany, Alameda County.

LOW BIDS: Watkin & Sibbald, 6 Bridge St., San Anselmo, $25,585; Stephen L. Vistica & Son, 70 N. El Camino Real, San Mateo, $25,859; Shawn Co., 1712 Windsor Lane S.E., Santa Ana, $27,578.

S-SJ-5-A—Plantmix surfacing on existing surfacing from 1.6 mi. west of Tracy to Tracy, San Joaquin County.

LOW BIDS: C & H Construction Co., Inc., 1015 Market, Richmond, $32,298; Independent Construction Co., 741 50th Ave., Oakland, $32,649; M. J. Ruddy & Son, Route 6, Box 1419-A, Modesto, $33,908.
PB 9-20. Previous report 9-6

★TRANSMISSION LINE— Sacramento, Calif.

Award to Wismer and Becker Electric Co., 1731 S St., Sacramento, $27,480, by Sacramento Municipal Utility District, 1708 59th St., Sacramento, for construction of the Hedge to PG&E tap, 230 kv transmission line, Sacramento County; Inv. 5801.
RC 9-20. Previous report 9-13

STATE HIGHWAY PROJECT— Sacramento, Calif.

The California Division of Highways, 510 Public Works Bldg., Sacramento, has rejected the bid received September 3 for grading, plantmix surfacing, drainage structures, bank protection, at three locations from 3.2 mi. east of Humboldt County line to 2.2 mi. east of Burnt Ranch Post Office, Trinity County; I-TRI-20-C D. Only bid was submitted by Granite Construction Co., Box 900, Watsonville, $196,883.
PB 9-20. Previous report 9-6

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened August 27.

I-HUM-1-I—Grading, plantmix surfacing, 1.6 mi. four-lane divided highway and connection; three bridges and portion of bridge; Mad River, Humboldt County. AWARD: Mercer Fraser & Sons, Inc., 2nd and Commercial, Eureka, $801,717.

IV-SCR-67-A—Grading, plantmix surfacing 0.1 mi. two-lane highway, 8 mi. east of Watsonville, Santa Cruz County. AWARD: Granite Construction Co., Box 900, Watsonville, $43,699.

IV-SON-48-A—Repairing 0.2 mi. storm damage, grading, plantmix surfacing, 2 mi. southeast of Mendocino County line, Sonoma County. AWARD: Arthur B. Siri, Inc., 1357 Cleveland, Santa Rosa, $71,986.

III-YOL, COL-50-A—Repairing storm damage to traveled way, slopes, two locations, north of Rumsey and north of Yolo County line, Yolo and Colusa counties. AWARD: Lange Bros., Box 66, Lakeport, $23,345.

III-BUT,SAC,YOL,ED,NEV,YUB,6,11,15,17,25,47,50-VAR—Seal coating 59 mi., various locations, Butte, Sacramento, Yolo, El Dorado, Nevada, Yuba counties. AWARD: H. B. Folsom, 1009 Dean Road, Sacramento, $51,500.

I-MEN-56-FBG,F—Bridge and approaches, 0.6 mi. across Pudding Creek at Fort Bragg, Mendocino County. AWARD: Bos Construction Co., 1035 Grayson, Berkeley, $295,664.

II-SHA-3—Timber pile, wire fencing bank protection retard, 4.3 mi. south of Redding at Clear Creek, Shasta County. AWARD: John W. Lemon Co., 1352 98th Ave., San Francisco, $11,818.

IV-CC-7-HER,B—Plantmix surfacing 4.6 mi. from Rt. 106 to Carquinez Bridge approach, Contra Costa County. AWARD: Richmond Export Services Inc., 2115 MacDonald Ave., Richmond, $49,914.

V-SBT,MON,SLO,SB-2,56,125-VAR — Seal coating 25.4 mi. various locations, San Benito, Monterey, San Luis Obispo, Santa Barbara counties. AWARD: Ted Watkins, Box 453, San Luis Obispo, $36,316.
PB 9-20. Previous report 8-30

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division

of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened August 20.

II-TRI-20-F—Constructing metal bin-type retaining wall, restoring roadbed, 2.2 mi. west of Junction City, Trinity County. AWARD: Trinity Construction Co., Box 1642, Redding, $14,982.

IV-SCL-5-LGTS—Repairing storm damaged channel within highway right-of-way, grading, constructing concrete channel lining, retaining wall, flume, placing riprap, 0.2 mi., near Main St., Los Gatos, Santa Clara County. AWARD: Dan Caputo, Co., 650 Race St., San Jose, $213,621.

III-PLA-37-B,D—Radio controlled, changeable, illuminated sign systems, near Colfax and Baxter, U. S. 40, Placer County. AWARD: Marshall Electric Co., 1701 Industrial Road, San Carlos, $18,969.

X-TUO-954—Grading, plantmix surfacing, 1.9 mi. from east of Standard Rd. to Ralph Station, on Tuolumne-Sonora Rd., Tuolumne County. AWARD: Fredrickson Bros., 1259 65th St., Emeryville, $255,336.

PB 9-20. Previous report 8-23

●CIRCUIT BREAKERS— Sacramento, Calif.

Bids will be opened 3 p.m., P.S.T., October 9, by Sacramento Municipal District, Purchasing Dept., 1708 59th St., Sacramento, for furnishing and delivering two 14.4 kv, 4,000 ampere, 1,500 mva air blast circuit breakers with appurtenant equipment and controls for Jaybird Powerhouse, Upper American River Project, El Dorado County, Calif.; Inv. 2105. Specs with above address. RC 9-20

●TACAN FACILITY— Sausalito, Calif.

Bids will be opened 3 p.m., P.D.T., September 22, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Box 90007, Los Angeles, Calif. for construction of Type II, Sched. I combined VHF Omni Range and TACAN Facility (Mountain top VORTAC), located two airline mi. west of U. S. Post Office Bldg., Sausalito; Proposal No. 4-59-023. Specs with above address. Bid bond 10%. Completion 45 days. Reserved for small business. RM 9-20

▲SEWERS— Sonora, Calif.

Bids received September 8 by City Council, 94 N. Washington, Sonora, for installing sewer line in Meyers Hill subdivision, Sonora. LOW BIDS: Valley Engineers, Inc., Box 412, Fresno, $87,844; Beerman and Jones, Box 698, Sonora, $109,479; M. Miller Co., 877 Bunkerhill Ave., Los Angeles, $111,894. Seven bids received. RM 9-20. Previous report 8-23

★RECONSTRUCTING STREET— Stockton, Calif.

Award to A. Teichert and Son, 1931 Stockton Blvd., Sacramento, $56,674, by City Council, City Hall, Stockton, for widening and reconstructing Pershing Ave. from Mendocino Ave. to Rosemarie Lane to provide approaches for Pershing Ave. Bridge over Calaveras River in Stockton. RC 9-20

●SEALING RUNWAY PAVEMENT— Travis AFB, Calif.

Bids will be opened 2 p.m., D.S.T., September 23, by Corps of Engineers, 398 Wright Bldg., 1209 Eighth St., Sacramento, for grooving cracked portland cement concrete pavement and sealing with hot-poured type sealer, runway parallel, Travis Air Force Base, Solano County, Calif.; ENG-04-167-59-12. Specs with above address. Bid bond 20%. Completion 30 days. RM 9-20

★PUMPING PLANTS— Tule Lake, Calif.

Award to George R. Stacy, Oregon Ltd., Box 853, Klamath Falls, Ore., $28,355, by Bureau of Reclamation, Box 312, Klamath Falls, Ore., for construction of Coppock Bay pumping plants and earthwork for M Canal and 100-D-1 drain, near Tule Lake, Modoc County; Spec. 200C-393.

RM 9-20. Previous report 9-6

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be in	Date Printed in Pacific Construction Daily

OREGON

Sept 22—Eugene—Painting Building 9-17
Sept 22—Portland—Cooling System 9-4
Sept 23—Hebo—Housing Project 8-30
Sept 24—Coos Bay—School Improvements 9-12
Sept 25—Hines—Six-Stall Garage 9-16
Sept 25—Klamath Falls—Building Improvements 9-16
Sept 25—West Linn—School 8-6
Sept 29—Medford—Building Alterations 9-16
Sept 30—Bandon—Hospital 9-13
Sept 30—Eugene—Painting 9-16
Sept 30—Gresham—Building Repairs 9-16
Sept 30—Jackson County—Ranger Station Buildings 9-12
Sept 30—Salem—Swimming Pool 9-12
Oct 1—Vale—Courthouse 9-11
Oct 2—Ashland—Residence 9-9
Oct 2—Douglas County—Office Building, Residences 9-16
Oct 8—Portland—Recreational Center 9-4
Oct 8—Portland—Folder Bleacher Seats 9-11
Oct 9—Portland—High School Remodeling 9-11

WASHINGTON

Sept 22—Blaine AFS—Painting 8-30
Sept 22—Makah AFS—Repair Roofs 8-29
Sept 22—Paine AFB—Repair Building 8-30
Sept 22—Paine—Repair Doors 9-4
Sept 22—Paine AFB—Shower Repairs 8-29
Sept 22—Spokane—Service Station 9-16
Sept 22—Vancouver—Building Additions 8-29
Sept 23—Geiger AFB—Painting 9-3
Sept 23—Geiger AFB—Install Floodlight 9-3
Sept 23—Makah AFS—Flooring, Tiling, Painting 9-4
Sept 23—Spokane—Country Club Addition 9-16
Sept 23—Vancouver—School Addition 9-4
Sept 24—Nooksack—Physical Education Plant 9-5
Sept 24—Paine AFB—Modify Building 9-4
Sept 24—Paine AFB—Building Modification 9-4
Sept 24—Paine—Flooring, Siding, Painting 9-5
Sept 24—Richland—Fire Protection System 9-4
Sept 25—Blaine—Building Improvements 9-12
Sept 25—Fairchild AFB—Painting 9-16
Sept 25—Geiger AFB—Remodel Cafeteria 9-11
Sept 25—Geiger AFB—Guest House 9-11
Sept 25—Geiger AFB—Mechanical Repair 9-11
Sept 25—Richland—Building Addition 9-6
Sept 25—Seattle—Laboratory Alterations 9-12
Sept 26—Seattle—Hospital Addition 9-13
Sept 29—Ellensburg—Vortac Facility 9-17
Sept 29—Geiger AFB—Install Receptacles 9-16
Sept 29—Seattle—Refinish Floors 9-16
Sept 30—Anacortes—High School Additions 9-13
Sept 30—Chelan—Post Office 8-30
Sept 30—Everett—Post Office 8-30
Sept 30—Laurier—Heating Conversion 9-16
Sept 30—Mountlake Terrace—Elementary School 9-5
Sept 30—Oroville—Building Improvements 9-16
Oct 1—Fairchild AFB—Housing Improvements 9-11
Oct 2—Kirkland—Elementary School Addition 9-11
Oct 2—Seattle—Painting, Renovating Terminal 9-16
Oct 7—Mukilteo—Olivia Park School Addition 9-9
Oct 8—Yelm—School Additions 8-22
Oct 9—Kennewick—Church 8-19
Oct 29—Richland—Plutonium Test Reactor 9-11

IDAHO

Sept 23—Coeur d'Alene—Office Building 9-13
Sept 25—Lewiston—Roofing, Insulation 9-16
Oct 7—Melba—Elementary School, Gymnasium 9-17

MONTANA

Sept 23—Lewistown—High School 9-3
Sept 25—Lewistown—Masonry Repairs 9-12
Sept 26—Great Falls—Mortuary 9-13
Sept 26—Ulm—School Addition, Alterations 9-17
Sept 30—Anaconda—Painting 9-16
Sept 30—Havre—Telephone Building 9-17
Sept 30—Helena—Remodeling, Repairs 9-16

ALASKA

Sept 22—Fairbanks—School Addition 9-10
Sept 23—Elmendorf AFB—Store, Cafeteria 8-26
Sept 23—Ladd AFB—Door Repairs 9-16
Sept 25—Ladd AFB—Shop Repairs 9-16
Sept 25—Ladd AFB—Shop Repairs 9-17
Sept 29—Ladd AFB—Install Doors 9-10
Sept 30—Anchorage—Remodeling, Repairs 9-16

ENGINEERING PROJECTS

Bids Must Be in	Date Printed in Pacific Construction Daily

OREGON

Sept 22—Medford—Install Water Line 9-12
Sept 24—Camp Adair—Utility Systems 9-9
Sept 24—Corvallis—Oiling 9-12
Sept 25—Crabtree—Bank Protection 9-16
Sept 26—Coos County—Surfacing 9-16
Sept 26—Portland—Paving 9-11
Sept 26—Portland—Steel Ramp Walkway 9-11
Sept 29—Fremont National Forest—Water Wells 9-11
Sept 30—Deschutes County—Grading 9-13
Sept 30—Salem—State Highway Projects 9-17
Oct 2—Brownsville—Clearing, Banking 9-16
Oct 3—Portland—Grading, Constructing Posts 9-17
Oct 3—Portland—Grading 9-17
Oct 9—Coos Bay—Dredging 9-17

WASHINGTON

Sept 22—Bellingham—Reservoir 8-30
Sept 22—Bellingham—Sanitary Sewer Line 9-16
Sept 22—Olympia—Steel Bridge 9-11
Sept 23—Paine AFB—Replace Sewer Line 9-5
Sept 22—Seattle—Road Surfacing 9-3
Sept 22—Seattle—Handhole Frames 9-12
Sept 23—Beverly—Furnish Pumping Units 8-16
Sept 23—Ephrata—Wasteway, Drains 9-11
Sept 23—Everett—Install Steel Pipe 9-3
Sept 23—Olympia—State Highway Projects 9-5
Sept 23—Seattle—Power Sweeper 9-12
Sept 24—Fort Lewis—Concrete Curbs 9-11
Sept 24—Monroe—Paving, Draining, Curbing 9-16
Sept 24—Seattle—Storm Sewer 9-12
Sept 25—Fairchild AFB—Modify Digester 9-16
Sept 25—Olympia—Paving 9-5
Sept 25—Seattle—Sewage Treatment System 9-17
Sept 26—Naselle—Dike 9-11
Sept 26—Neah Bay—Construct Moorings 9-12
Sept 26—Snohomish County—Riprap 9-13

Sept 26—Tacoma—Relocate, Install Fence 9-12
Sept 29—Everett—Vibrating Screen 9-17
Sept 29—Hoquiam—Airport Lighting 9-16
Sept 29—Seattle—Approach Lighting System 9-17
Sept 29—Wenatchee—Transformer 9-11
Sept 30—Othello—Install Pump 9-11
Sept 30—Seattle—Site Clearing 9-11
Oct 1—Walla Walla—Sewer 9-16
Oct 6—King County—Grading, Surfacing 9-17
Oct 7—Ephrata—Earthwork, Structures 9-16
Oct 7—Grant County—Switchyard 9-12
Oct 10—Wenatchee—Grading 9-12
Oct 16—Radar Pumping Plant—Pumping Units 9-12
Oct 18—Yakima—Water Wells 9-16

IDAHO

Sept 22—Nampa—Grading, Gravel Surfacing, Lighting 9-11
Sept 23—Boise—State Highway Projects 9-3
Sept 29—Lewiston—Crushed Aggregate 9-16
Sept 30—Boise—State Highway Projects 9-3
Sept 30—Boise—State Highway Projects 9-10
Sept 30—Boise—State Highway Projects 9-17
Sept 30—Idaho County—Clearing, Grading, Draining 9-12
Oct 6—Shoshone County—Clearing, Draining 9-9
Oct 7—Boise—State Highway Project 9-17
Oct 7—Payette—Sewage Plant, Sewers 9-10
Oct 7—Pocatello—Sewage System, Treatment Plant 9-13

MONTANA

Sept 24—Helena—State Highway Projects 9-9
Sept 25—Glendive—Auto-Transformers 8-9
Sept 30—Fort Peck—Power Circuit Breakers 8-23

ALASKA

Sept 22—Delta Junction—Well, Sewer 9-12
Sept 24—Ladd AFB—Install Distribution System 9-12
Sept 25—Dry Pass, Rocky Pass—Dredging 8-28
Sept 26—King Salmon—Approach Lighting System 8-30
Oct 1—Juneau—Security Fencing 9-11
Oct 1—King Salmon AFS—Modify Tank System 9-12
Oct 7—Sitka—Bridges 9-16

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., SEPTEMBER 24
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 a.m. on September 24, 1958. The proposals will be publicly opened and read immediately thereafter. Your attention is directed to the 9:00 a.m. hour set for the opening of bids in Room 151 of the State Highway Department Building.

The Form for Bid Bond is no longer included in the "Instruction to Bidders" and no Bid Bond will be acceptable. No proposal will be considered unless accompanied by a proposal guaranty, in an amount of at least five (5) per cent of the bid, made unconditionally payable to the State Highway Commission of Montana, which at the bidder's option may be cash, cashier's check, certified check- bank- postal- or express money order, or bank draft.

1. **I-15-5(9)275 Unit 1**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain 8.337 miles on the Sun River-Great Falls Road in Cascade County, involving about 2,860,399 cu. yds. excavation; 912,745 mi. yds. overhaul; 9,077 units rolling; 58,009 M gals. watering; 147 hours watering; 334,562 tons crushed aggregate; 427,452 tons uncrushed aggregate; 4,-218.77 tons penetration asphalt; 568.84 tons cutback asphalt; 474.80 tons emulsified asphalt; 76,627 tons plant mix; 876 lin. ft. remove concrete curb; 100 lin. ft. relay pipe culverts; 604 cu. yds. gravel backfill; 431 lin. ft. structural plate pipe; 5,548 lin. ft. reinforced concrete pipe; 5,779 rods wire fence; 162 each fence panels; 33,850 lin. ft. guard rail; 293.4 sq. yds. concrete pavement; 988 lin. ft. concrete median curb; 21 each inlet covers; all lump sum weigh station; all lump sum conduit system; 249 lin. ft. jiggle bars; and other items. Project to be completed in 380 calendar days.

2. **I-15-5(9)275 Unit 2**—The construction of one 108.0' dual and one 218.9' single concrete structure, and three 17.25' concrete junior-grade separations on the Sun River-Great Falls Road in Cascade County, involving about 1,260 lin. ft. precast prestressed concrete beam; 1,935 cu. yds. structure excavation; 1,929.8 cu. yds. concrete; 219,064 lbs. reinforcing steel; all lump sum structural steel; all lump sum treated timber test piles; 11,350 lin. ft. furnishing treated timber piles; 10,958 lin. ft. driving trated timber piles; 550.42 lin. ft. steel beam bridge rail; 440 lin. ft. steel bridge rail; and all lump sum conduit system. Project to be completed by October 31, 1959.

3. **F 87(10) Unit 1 and DF 87(11)**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain 9.893 miles on the Plains-Elmo Road in Sanders County, involving about 233,625 cu. yds. excavation; 74,991 mi. yds. overhaul; 226,688 cu. yds. subgrade compaction; 799 units rolling; 3,423 M. Gals. watering; 58 hours watering; 173,063 tons crushed aggregate; 37,394 cu. yds. sand surfacing; 1,379.49 tons penetration asphalt; 222.39 tons cutback asphalt; 185.24 tons emulsified asphalt; 25,-082 tons plant mix; 130 cu. yds. riprap; 652 lin. ft. relay-pipe culverts; 1,626 cu. yds. gravel backfill; 2,391 lin. ft. corrugated metal pipe; 800 lin. ft. structural plate pipe; 5,158 lin. ft. reinforced concrete pipe; all lump sum remove existing structures; and other items. Project to be completed in 160 calendar days.

4. **F 87(10) Unit 2**—Construction of one 50.0' steel and concrete bridge on the Plains-Elmo Road in Sanders County, involving about all lump sum remove existing structure and maintain traffic; 300 lin. ft. precast prestressed concrete beam; 80 cu. yds. structure excavation; 88.9 cu. yds. concrete; 12,564 lbs. reinforcing steel; 1,100 lin. ft. furnishing treated timber piles; 1,080 lin. ft. driving treated timber piles; 105.46 lin. ft. steel beam bridge rail; and other items. Project to be completed by July 31, 1959.

5. **I 90-1(5)46**—The construction of one 620.-92' and one 800.92' steel and concrete bridge on the Superior-East and West Road in Mineral County, involving about 1,195 cu. yds. excavation; 56 each floor drains; 4,755 cu. yds. structure excavation; all lump sum shoring and cribs; 3,309.9 cu. yds. concrete; 364,573 lbs. reinforcing steel; all lump sum structural steel; all lump sum untreated timber test piles; all lump sum treated timber test piles; 11,770 lin. ft. furnishing untreated timber piles; 9,811.5 lin. ft. drive untreated timber piles; 3,442 lin. ft. driving treated timber piles; 3,540 lin. ft. furnish trated timber piles; and 2,847.0 lin. ft. steel bridge rail. Project to be completed by July 31, 1960.

6. **S 14(8)**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain 11.859 miles on the Ringling-Martinsdale Road in Meagher County, involving about 168,112 cu. yds. excavation; 60, 849 mi. yds. overhaul; 667 units rolling; 3,603 M gals. watering; 50 hours watering; 57,723 tons crushed aggregate; 1,009.56 tons asphalt cement; 193.58 tons cutback asphalt; 161.49 tons emulsified asphalt; 18,355 tons plant mix; 261 lin. ft. relay pipe culverts; 280 cu. yds. gravel backfill; 328 lin. ft. corrugated metal pipe; 340 lin. ft. structural plate pipe; 1,370 lin. ft. reinforced concrete pipe; and other items. Project to be completed in 160 calendar days.

7. **S 51(4)**—Grade, aggregate surfacing, and drain 4.597 miles on the Knobs-Webster-Baker Road in Fallon County, involving about 151,475 cu. yds. excavation; 5,538 mi. yds. overhaul; 104 units rolling; 2,785 M gals. watering; 26,029 tons crushed aggregate; 583 cu. yds. binder; 100 lin. ft. relay pipe culverts; 87 cu. yds. gravel backfill; 1,005 lin. ft. corrugated metal pipe; 116 lin. ft. structural plate pipe; and other items. Project to be completed in 120 calendar days.

8. **DS 64(2) and S 64(3)**.—Grade, aggregate surfacing, drain, and construction of one 57' treated timber bridge on 8.709 miles on the Shawmut-Hedgesville Road in Wheatland County, involving about 357,114 cu. yds. excavation; 69,852 mi. yds. overhaul; 171 units rolling; 6,195 M gals. watering; 42,752 tons crushed aggregate; 252 lin. ft. relay pipe culverts; 180 cu. yds. gravel backfill; 2,788 lin. ft. corrugated metal pipe; 190 lin. ft. structural plate pipe; 0.872 MBM untreated timber; 20.616 MBM treated timber; 630 ft. treated timber piles, and other items. Project to be completed in 160 calendar days.

9. **DS 178(4) and S 178(5)**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, draining, and construction of one 75' timber bridge, a total of 7.759 miles on the Moiese-Charlo-Nine Pipe Road in Lake County, involving about 128,414 cu. yds. excavation; 7,995 mi. yds. overhaul; 874 units rolling; 3,462 M gals. watering; 42 hours watering; 78,994 tons crushed aggregate; 12,445 cu. yds. crushed aggregate; 836.43 tons penetration asphalt; 159.18 tons cutback asphalt; 132.79 tons emulsified asphalt; 15,775 tons plant mix; 100 lin. ft. relay pipe culverts; 31 cu. yds. gravel backfill; 2,668 lin. ft. corrugated metal pipe; all lump sum remove existing structure; 1.144 MBM untreated timber; 35.497 MBM treated timber; 1,540 lin. ft. treated timber piles; and other items. Project to be completed in 160 calendar days.

10. **S 185(1)**—Grade, aggregate surfacing, and drain 3.909 miles on the Santa Rita-Del Bonita Road in Glacier County, involving about 175,473 cu. yds. excavation; 43,141 mi. yds. overhaul; 484 units rolling; 3,298 M gals. watering; 33,541 tons crushed aggregate; 33 lin. ft. relay pipe culverts; 100 cu. yds. gravel backfill; 1,550 lin. ft. corrugated metal pipe; and other items. Project to be completed in 120 calendar days.

11. **DS 187(5)**—Grade, aggregate surfacing, and drain 6.394 miles on the Armells Creek-Hays-Harlem Road in Phillips County, involving about 545,407 cu. yds. excavation; 68,044 mi. yds. overhaul; 1,289 units rolling; 9,167 M gals. watering; 50,438 tons crushed aggregate; 1,178 cu. yds. binder; 2,356 mi. yds. overhaul of binder; 37 cu. yds. riprap; 100 lin. ft. relay pipe culverts; 378 cu. yds. gravel backfill; 1,966 lin. ft. corrugated metal pipe; 256 lin. ft. structural plate pipe; and other items. Project to be completed in 180 calendar days.

12. **S 192(2) Unit 2**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain, and construction of one 19', one 25' and one 29' treated timber bridge on 6.837 miles on the Adobe (Laurel) Road in Yellowstone County, involving about all lump sum clearing and grubbing;

114,956 cu. yds. excavation; 314,758 mi. yds. overhaul; 843 units rolling; 4,379 M gals. watering; 43 hours watering; 46,641 tons crushed aggregate; 88,995 tons uncrushed aggregate; 771.75 tons asphalt cement; 284.34 tons cutback asphalt; 14,058 tons plant mix; 440 cu. yds. riprap; 162 lin. ft. relay pipe culverts; 120 cu. yds. gravel backfill; 972 lin. ft. corrugated metal pipe; 122 lin. ft. structural plate pipe; 2,790 lin. ft. reinforced concrete pipe; all lump sum remove existing structure; 1,217 MBM untreated timber; 36.288 MBM trated timber; 1,320 lin. ft. treated timber piles; and other items. Project to be completed in 160 Calendar days.

13. **S 248(2) Unit 1**—Grade, aggregate surfacing, plant-mix bituminous surfacing, sealcoat oiling, and drain 12.143 miles on the East of Blackfoot-Northerly Road in Glacier County, involving about 771,325 cu. yds. excavation; 89,542 mi. yds. overhaul; 2,319 units rolling; 14,838 M gals. watering; 65 hours watering; 165,412 tons crushed aggregate; 1,264.41 tons penetration asphalt; 242.25 tons cutback asphalt; 201.40 tons emulsified asphalt; 22,991 tons plant mix; 100 lin. ft. relay pipe culverts; 82 cu. yds. gravel backfill; 4,510 lin. ft. corrugated metal pipe; 84 lin. ft. structural plate pipe; and other items. Project to be completed in 300 calendar days.

14. **S 248(2) Unit 2**—Construction of one 19.0' and 38.0', one 50.0' and one 100.0' treated timber bridge on the East of Blackfoot-Northerly Road in Glacier County, involving about 400 cu. yds. excavation; all lump sum remove existing structure and maintain traffic; 3,096 lbs. structural steel; 3.213 MBM untreated timber; 94.257 MBM treated timber; 2,245 lin. ft. treated timber piles; and other items. Project to be completed by June 30, 1959.

15. **DS 289(7) and DS 346(4)**—Grade, aggregate surfacing, and drain 7.676 miles on the Red Lodge-Columbus Road in Carbon and Stillwater counties, involving about all lump sum clearing and grubbing; 231,193 cu. yds. excavation; 24,830 mi. yds. overhaul; 599 units rolling; 4,142 M Gals. watering; 36,523 tons crushed aggregate; 1,256 lin. ft. corrugated metal pipe; 310.14 cu. yds. riprap; 424 lin. ft. structural plate pipe; 4,169 lin. ft. reinforced concrete pipe; all lump sum remove existing structures; 100 lin. ft. relay pipe culverts; 300 cu. yds. gravel backfill; and other items. Project to be completed in 160 calendar days.

The above-listed quantities are approximate only.

Prequalification of bidders, at least 72 hours prior to the opening of bids, is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, in Helena, Montana. Plans and specifications for all Federal aid projects are also on file and may be examined in the offices of the Bureau of Public Roads, at Helena, Montana.

Harry L. Burns, Chairman
Fred Quinnell, Jr. State Highway Engineer
6286—9-13, 20

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., OCTOBER 7
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 7, 1958, until 10:00 A.M., and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashiers' check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payments to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 9 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Cement Treated Base, Paving with Asphaltic Concrete and Fencing on 1.799 miles of Primary State Highway No. 1 in Pierce County, SOUTH 72ND STREET TO SOUTH 40TH STREET IN TACOMA, FAP No. I-5-3(33)130, involving about 78 acres of Clearing, 774,980 cubic yards of Common Excavation and Borrow, 134,310 cubic yards of Unsuitable Foundation Excavation, 10,100 tons of Gravel Surfacing, Selected Roadway Borrow and Crushed Surfacing, 245 cubic yards of Crushed Cover Stone and Prime Coat Aggregate, 30 tons of Asphalt Cement, 2,860 tons of Asphaltic Concrete, 510 barrels of Portland Cement, 2,100 tons of Cement Treated Base, 3,680 linear feet of Cement Concrete Curb and Gutter, 1,350 square yards of Cement Concrete Sidewalk, 980 linear feet of Mountable Cement Concrete Curb and Gutter, 2,560 linear feet of Precast Traffic Curb, 27 cubic yards of Concrete, 27,502 linear feet of Concrete Pipe, 18,884 linear feet of Metal Pipe, 114 linear feet of Steel Pipe, 200 linear feet of Galvanized Pipe, 17,570 linear feet of Chain Link Fence and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment, Fencing and Constructing a Steel Plate Girder Bridge on 1.921 miles of Primary State Highway No. 18 in Adams County, RITZVILLE VICINITY, FAP No. I-IG-90-4(10)214, involving about 366,550 cubic yards of Common Excavation, 113,740 cubic yards of Solid Rock Excavation, 36,660 cubic yards of Top Soil, 2,000 tons of Selected Roadway Borrow, 7,110 tons of Crushed Surfacing, 65 tons of Asphalt Cement, 2,974 linear feet of Concrete Pipe, 237 linear feet of Metal Pipe, 8,635 linear feet of Chain Link Fence, 17,285 linear feet of Wire Fence, 2,082 cubic yards of Concrete, 231,180 pounds of Steel Reinforcing Bars, a lump sum bid for Structural Carbon Steel (about 660,000 pounds), a lump sum bid for Wrought Iron Plates (about 123,000 pounds), 629 linear feet of Welded Pipe Railing, 2 MBM of Treated Timber Planking, a lump sum bid for Painting Bridge Steel and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
3. Constructing Two Precast Prestressed Concrete Girder Bridges on Primary State Highway No. 1 in King County, N.E. 8TH STREET UNDERCROSSING-BELLEVUE, FAP No. I-B5-3(37)168, involving about 1,161 linear feet of Standard Bridge Railing, 3,432 linear feet of Prestressed Concrete Girders, 1,245 cubic yards of Concrete, 250,000 pounds of Steel Reinforcing Bars and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment on 1.579 miles of Primary State Highway No. 10 in Chelan County, KNAPPS HILL NORTHERLY, FAP No. F-029-1(5), involving about 63,800 cubic yards of Common Excavation, 42,820 cubic yards of Solid Rock Excavation, 15,270 tons of Ballast, Crushed Surfacing and Crushed Cover Stone, 63 tons of Asphalt Cement, 862 linear feet of Concrete Pipe, 2,796 linear feet of Beam Guard Rail, 50 Guide Posts and other items.
5. Grading, Surfacing, Paving with Bituminous Plant Mix and Widening an Existing Reinforced Concrete Arch Bridge on 0.128 mile of Primary State Highway No. 9 in Clallam County, ELWHA RIVER BRIDGE, No. 9/306 AND APPROACHES, FAP No. F-007-3(7), involving about 1,730 cubic yards of Common Borrow, 125 tons of Crushed Surfacing, 450 tons of Bituminous Plant Mix, 456 linear feet of Reinforced Concrete Cribbing Headers and Stretchers, 408 cubic yards of Concrete, 147,220 pounds of Steel Reinforcing Bars, 906 linear feet of Special Bridge Railing, 177 linear feet of Beam Guard Rail and other items.
6. Installing Illumination on Primary State Highway No. 1 in Pierce County, BRIDGEPORT WAY TO SOUTH 72ND STREET IN TACOMA—ILLUMINATION, FAP No. I-5-3(32)126, involving 4 lump sum bids for Installing Illumination. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
7. Signing on State Highways Nos. 2 and 2-A in King County, PSH No. 1 TO AUBURN AND N.E. 132ND STREET TO JCT. PSH No. 2—SIGNING, FAP Nos. F-046-1(7) and U-025-1(14), involving 2 lump sum bids for Signing.
8. Constructing a Through Steel Truss Bridge with Plate Girder and Reinforced Concrete Approach Spans on 0.095 mile of a Skagit County Road, SAUK RIVER BRIDGE, FAS No. S-0798(4), involving about 200 tons of Loose Riprap, 690 cubic yards of Concrete, 100,000 pounds of Steel Reinforcing Bars, a lump sum bid for Structural Carbon Steel (about 348,000 pounds), 1,300 linear feet of Untreated Timber Piling, 880 linear feet of Concrete Piling, 1,005 linear feet of Metal Bridge Railing, a lump sum bid for Steel Grid Floor and other items.
9. Draining, Grading and Surfacing on 2.797 miles of a Spokane County Road, MARTIN ROAD RECONSTRUCTION, FAS No. S-0671(2) and County Project, involving about 24,180 cubic yards of Common Excavation, 19,830 cubic yards of Solid Rock Excavation, 19,860 tons of Crushed Surfacing, 566 linear feet of Metal Pipe and other items.
10. Constructing a Frame Building with Metal Covering in Clark County, DISTRICT 4 MATERIALS LABORATORY, a State Project, involving a base bid for the Entire Improvement.
11. Surfacing and Stockpiling Crushed Surfacing on 1.000 mile of a State Park Road in Spokane County, MOUNT SPOKANE STATE PARK-LINDERS RIDGE TO SKI AREA, a State Project, involving about 10,400 cubic yards of Stripping Quarries and Pits, 10,400 cubic yards of Crushed Surfacing and other items.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways
6295—9-20, 27

GRADING
BIDS CLOSE 10 A.M., SEPTEMBER 30
Portland, Oregon
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, SEPTEMBER 16, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m. on September 30, 1958, for furnishing the material and performing the work for constructing 5.469 miles grading, Oregon Forest Highway Project 46-F, CASCADE LAKES HIGHWAY, Deschutes National Forest, Deschutes County, Oregon, involving 52 Acres Clearing and grubbing; 244,000 Cu. Yds. Unclassified excavation; 46,000 Sta. Yds. Special subbase; 2,570 Lin. Ft. Culvert pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA 6-3361, Extension 460.) B. M. FRENCH, Regional Engineer.
6289—9-20

PUMPING UNITS

BIDS CLOSE SEPTEMBER 16

Radar Pumping Plant, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Invitation No. DS-5109), will be received at Denver, Colorado, until October 16, 1958, for furnishing motor-driven, horizontal, centrifugal-type pumping units as follows: Three (3) units each having a capacity of 37 cubic feet per second at 275 foot head; and two (2) units each having a capacity of 17.5 cubic feet per second at 119 foot head for Radar Pumping Plant, Columbia Basin Project, Washington. Delivery is desired within 330 days. For particulars, address Bureau of Reclamation, Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

6287—9-20

GRADING

BIDS CLOSE 10 A.M., OCTOBER 3

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 19, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, P. O. Box 3900, Portland, Oregon, until 10 a.m. on October 3, 1958, for furnishing the material and performing the work for constructing 2.832 miles grading, Oregon Forest Highway Project 3-A3, Oregon Coast Highway, Siuslaw National Forest, Lincoln and Tillamook Counties, Oregon, involving 5 Acres Clearing; 40 Acres Grubbing, 827,000 Cu. Yds. Excavation; 783,000 Sta. Yds. Overhaul; 153, Cu. Yds. Concrete; 20,600 Lbs. Reinforcement Steel; 4,800 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA. 6-3361, Extension 460) B. M. FRENCH, Regional Engineer.

6294—9-20

GRADING, CONSTRUCTING POSTS

BIDS CLOSE 10 A.M., OCTOBER 3

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 19, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, P. O. Box 3900, Portland, Oregon, until 10 a.m. on October 3, 1958, for furnishing the material and performing the work for constructing 0.637 mile grading and 0.228 mile post construction, Oregon Forest Highway Project 3-A4, OREGON COAST HIGHWAY, Siuslaw National Forest, Tillamook County, Oregon, involving 5 Acres Clearing; 15 Acres Grubbing; 580,000 Cu. Yds. Excavation; 481,000 Sta. Yds. Overhaul; 2,700 Lin. Ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA. 6-3361, Extension 460) B. M. FRENCH, Regional Engineer.

6293—9-20

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., SEPTEMBER 23

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, September 23, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from the office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 6 inclusive.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment, Paving with Asphaltic Concrete and Fencing on 1.334 miles of Primary State Highway No. 5 in Lewis County, SALKUM TO MILL CREEK, FAP No. DF-016-1(8), involving about 9 acres of Clearing, 85,510 cubic yards of Common Excavation, 19,100 tons of Selected Roadway Borrow, 5,150 tons of Crushed Surfacing and Crushed Cover Stone, 380 cubic yards of Mineral Aggregate and Prime Coat Aggregate, 47 tons of Asphalt Cement, 4,100 tons of Asphaltic Concrete, 1,710 barrels of Portland Cement, 5,790 tons of Cement Treated Base, 30 cubic yards of Concrete, 5,620 pounds of Steel Reinforcing Bars, 1,970 linear feet of Concrete Pipe, 630 linear feet of Galvanized Iron Pipe, 854 linear feet of Beam Guard Rail, 85 Guide Posts, 2,280 linear feet of Wire Fence and other items.
2. Constructing a Reinforced Concrete Box Girder Bridge on Primary State Highway No. 1 in Cowlitz County, LONGVIEW WYE INTERCHANGE—A AND H LINES SEPARATION, FAP No. I-5-1(21)37, involving about 50 cubic yards of Common Excavation, 5,630 cubic yards of Unclassified Borrow, 445 cubic yards of Crushed Surfacing and Ballast, 95 tons of Asphaltic Concrete, 188 cubic yards of Concrete, 29,000 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 396 cubic yards of Concrete and 118,000 pounds of Steel Reinforcing Bars), 351 linear feet of Standard Bridge Railing, 3,300 linear feet of Treated Timber Piling and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
3. Draining, Grading and Surfacing on 4.727 miles of Yakima County Roads, WANETA ROAD AND FORSELL ROAD, FAP Nos. DS-0702(1) and DS-1383(1), involving about 23,690 cubic yards of Common Excavation, 56,210 tons of Ballast, Crushed Surfacing and Crushed Stone, 1,935 linear feet of Concrete Pipe and other items.
4. Draining, Grading and Surfacing on 2.588 miles of a Thurston County Road, ENDICOTT ROAD, FAS No. S-1062(1), involving about 20,650 cubic yards of Unclassified Excavation, 10,530 cubic yards of Selected Roadway Borrow, 3,430 cubic yards of Crushed Surfacing, 579 linear feet of Concrete Pipe and other items.
5. Clearing, Draining, Grading and Fencing on 1.441 miles of an Okanogan County Road, JOHNSON CREEK ROAD, FAS No. S-1165(1), involving about 23,460 cubic yards of Unclassified Excavation, 60 cubic yards of Loose Riprap, 604 linear feet of Metal Pipe, 3,600 linear feet of Wire Fence and other items.
6. Draining, Grading and Surfacing on 4.437 miles of a Walla Walla County Road, MIDDLE WAITSBURG ROAD, FAS No. S-0635(3), involving about 4.5 miles of Excavation of Shoulders, 9,400 cubic yards of Selected Roadway Borrow, 3,900 cubic yards of Crushed Surfacing, 50 linear feet of Metal Pipe and other items.
7. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Paving with Asphaltic Concrete and Cement Concrete on 0.310 mile of Primary State Highway No. 1 in Skagit County, KINCAID STREET TO DIVISION STREET IN MOUNT VERNON, a State Project, involving about 880 cubic yards of Unclassified Excavation, 1,100 cubic yards of Selected Roadway Borrow, 305 cubic yards of Crushed Surfacing, Crushed Cover Stone and Prime Coat Aggregate, 8 tons of Asphalt Cement, 920 tons of Asphaltic Concrete, 150 linear feet of Asphaltic Concrete Curb, 123 square yards of Cement Concrete Pavement and Driveway, 60 square yards of Cement Concrete Sidewalk, 382 linear feet of Cement Concrete Curb and Gutter, 80 linear feet of Concrete Pipe and other items.

ERNEST J. KETCHAM, Chairman

W. A. BUGGE, Director of Highways

6284—9-6, 13

SURFACING

BIDS CLOSE 10 A.M., SEPTEMBER 26

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, September 12, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address, P. O. Box 3900, Portland, Oregon, until 10 a.m. on September 26, 1958, for furnishing the material and performing the work for constructing 11.048 miles surfacing, Oregon Forest Highway Project 51-A2,B1, BELKNAP SPRINGS HIGHWAY, Willamette National Forest, Lane and Linn Counties, Oregon, involving 25,000 Cu. Yds. Stripping pits and quarries; 11.048 Miles Finishing previously constructed roadbed; 53,500 Tons Crushed aggregate base; 231 Tons Asphalt, RC-2, prime; 3,250 Cu. Yds. Crushed aggregate; 261 Tons Asphalt cement; 120-150 pen.; and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA. 6-3361, Extension 460) B. M. FRENCH, Regional Engineer.

6288—9-13

EARTHWORK, STRUCTURES, SURFACING

BIDS CLOSE 2 P.M., P.S.T., SEPTEMBER 25

Lewiston, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION. Sealed bids (Specifications No. DC-5097) will be received at Lewiston, California, until 2 p.m., Pacific Standard Time, September 25, 1958, for furnishing labor and materials for earthwork, structures, and surfacing, relocation of Trinity County road, Rush Creek to Stoney Creek, Central Valley Project, California. Location near Lewiston, California in Trinity County. Principal items are 1,000,000 cu. yds. excavation for roadway; 220,000 pounds furnishing and erecting steel for Stuart Fork Bridge; and other work. Completion time 450 days. For particulars, address Bureau of Reclamation, P. O. Box 247, Lewiston, California; or Building 53, Denver Federal Center, Denver, Colorado. W. A. Dexheimer, Commissioner.

6272—8-23

BRIDGES

BIDS CLOSE 11 A.M., P.S.T., OCTOBER 7

Juneau, Alaska

NOTICE TO CONTRACTORS

September 10, 1958, Juneau, Alaska; Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project AFH 11-E1, bridges at Granite Creek and Station 355+00, Sitka, Alaska, First Judicial Division, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., October 7, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of construction of two bridges located approximately 4.5 and 7 miles northwest of Sitka on the Sitka Highway. Principal items of work consist of the following: structural steel piles 10BP42, furnished—1,400 lineal feet; structural steel piles 10BP42, driven—38 each; Class "A" concrete, 259.3 cubic yards; reinforcement steel, intermediate grade—47,160 pounds. Plans and specifica-

tions may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Juneau, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6291—9-29, 27

SURFACING

BIDS CLOSE 10 A.M., SEPTEMBER 26

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, SEPT. 17, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m. on September 26, 1958, for furnishing the material and performing the work for constructing 5.098 miles surfacing, Oregon Timber Access Road Project BLM 621-A2, MIDDLE CREEK ROAD, Bureau of Land Management-Coos Bay District, Coos County, Oregon, involving 17,500 Cu. Yds. Excavation; 32,400 Cu. Yds. Special subbase; 17,800 Tons Crushed aggregate; 3,000 Cu. Yds. Stockpiled material; 1,000 Cu. Yds. Loose Riprap, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA-6 3361, Extension 460). B. M. FRENCH, Regional Engineer.
6290—9-20

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., SEPTEMBER 30

Salem, Oregon

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received and opened by the State Highway Commission, Room 418, State Highway Building in Salem, Oregon, at 9:00 a.m., on Tuesday, September 30, 1958. No award of contractors will be made on September 30 but all bids will be referred to the Highway Commission for award at its next meeting in Salem on October 23, 1958.

BIDS TO BE OPENED AT 9:00 A.M. ON TUESDAY, SEPTEMBER 30, 1958.

CLACKAMAS COUNTY: Clear Creek Bridge. FAP No. DS-395(1). 144' reinf. conc. structure on County Road No. FAS 810 at Viola, about 12 mi. east of Oregon City. Requires approx. 325 cu. yds. excav.; 300 cu yds. Class "A" Concrete; 70,000 lbs. metal reinf.; and removal and stockpiling of existing truss.

CLATSOP COUNTY: Bear Creek Bridge Section. 84' reinf. conc. bridge and 0.07 mi. grading and paving on Bear Creek County Road, 1.3 mi. south of Svensen. FAP No. DS-405(1)21. Includes following approx. quantities: 1,400 cu. yds. gen. excav.; 850 cu. yds. crushed material; 8 tons asphalt; 148 cu. yds. Class "A" Concrete; and 40,000 lbs. metal reinf.

COOS COUNTY: Sunset Bay State Park Extension. State project. Construct 12 trailer sites, 50 campsites, access roads, utility bldg., latrine, and water, sewer and electrical systems. Involves clearing and grubbing and approx. 10,000 cu. yds. special borrow; 6,500 cu. yds. gen. excav.; 400 lin. ft. 12" corr. metal pipe; 1,000 cu. yds. crushed material; 40 rods fence; building material; 32,00 lin. ft. plastic pipe; 1,500 lin. ft. sewer pipe; 36 faucets; 3 septic tanks; and 63 tables, stoves and guard logs.

COOS COUNTY: Bullards Bridge-Bandon Section of the Oregon Coast Highway, near Bandon. FAP No. DF109(8). 1.8 mi. grading and bituminous surfacing. Alternate bids will be received on two types of surfacing. Requires approx. 218,000 cu. yds. excav.; 100 cu. yds. conc. in box culvert; 18,900 lbs. metal reinf.; and 2,500 lin. ft. guardrail. Alternate "A" requires approx. 24,300 tons plant-mix asphaltic stabilized base; 1,390 tons 200-300 asphalt; 2,940 tons oil aggregates; and 58 tons RS-2 asphalt. Alternate "B" requires approx. 29,000 tons crushed materials in base and oiling; 68 tons RC-3 asphalt; 96 tons 200-300 asphalt; 36 tons RS-2 asphalt; 8,890 tons asphaltic conc. mixture in pavement; and 530 tons 85-100 asphalt in mixture.

DOUGLAS COUNTY: East Unit, Garden Valley Road Section of the Garden Valley County Road, just north of Roseburg. FAP No. DUS 402(1). 0.52 mi. grading and paving. Requires approx. 7,320 cu. yds. excav.; 230 cu. yds. conc. in curbs, box culverts and walls; 6,900 cu. yds. crushed materials in base and oiling; 18 tons RC-3 asphalt; 2 tons RS-1 asphalt; and 2,680 tons asphaltic conc. pavement.

JEFFERSON AND LINN COUNTIES: Santiam Jct.-Suttle Lake Rock Production Project on the Santiam Highway, near Hogg Butte, about 13 mi. northwesterly of Sisters. State project. Requires approx. 10,000 cu. yds. crushed rock or gravel in stock piles.

JOSEPHINE COUNTY: Redwood Highway Jct. Section of the Pacific and Redwood Highways, at Grants Pass. FAP Nos. U-131 (19) and F-127(9). Grading, paving and construction of one 51' and one 100' reinf. conc. structure. Requires approx. 169,000 cu. yds. excav.; 1,230 cu. yds. conc. in box culverts, walls, curbs, walks and islands; 2,400 lin. ft. guardrail; 55,370 tons crushed materials in base and oiling; 90 tons RC-3 asphalt; 80 tons 120-150 asphalt; 24 tons RS-1 asphalt; 13,600 tons asphaltic conc. pavement; 450 cu. yds. struct. excav.; 1,603 cu. yds. conc. in structures; 503,050 lbs. metal reinf.; 130 sq. yds. waterproofing; 220 lin. ft. metal handrail; and 380 sq. yds. conc. slab riprap.

LINN COUNTY: N. Albany Jct.-Lebanon Road Section of the Pacific Highway, south from Albany. Federal Aid Interstate Highway Project No. I-5-4(22)228. 6.96 mi. paving. Requires approx. 67,800 cu. yds. excav.; 500 cu. yds. conc. in curbs, gutters and islands; 32,000 lin. ft. guardrail; 500 guide posts; 80 rods fence; 325,000 tons crushed materials in base and oiling; 180 tons RC-3 asphalt; 110 tons 120-150 asphalt; 34 tons RS-1 asphalt; 34,600 tons asphaltic conc. pavement; and 194,000 sq. yds. reinf. portland cement conc. pavement.

LINN COUNTY: South Santiam Jct.-Lane County Line (Structure) Section of the Pacific Highway in Linn County. Construction of two undercrossing and six twin drainage structures from approx. 2.5 mi. to 17 mi. south of Albany. Federal Aid Interstate Highway Project No. I-5-4(23)218. Reinf. conc. deck girder and slab span bridges require approx. 1,500 cu. yds. struc-excavation; furnishing and driving 8 test piles; 1,100 lin. ft. steel piling; 5,052 lin. ft. treated timber piling; 16,228 lin. ft. of precast or prestressed conc. piling; 3,876 cu. yds. Class "A" Conc.; 1,085 cu. yds. Class "A-A" Conc.; 1,239,700 lbs: metal reinf.; and 665 lin. ft. 8" metal drain pipe.

MALHEUR COUNTY: Gwynn Undercrossing-Jonesboro and Tunnel-Namorf Sections of the Central Oregon Highway, 12 mi. east of Juntura and 30 mi. west of Vale. FAP No. F-326(6). 10.7 mi. grading and paving; construction of two reinf. conc. deck girder bridges; also furnishing crushed materials in stock pile. Requires approx. 347,600 cu. yds. excav.; 85 cu. yds. conc. in box culvert; 14,000 lbs. metal reinf. in box culvert; 10,000 lin. ft. guardrail; 300 sight posts; 1,500 rods fence; 5,000 tons riprap; 104,300 tons crushed materials in base and oiling; 11,500 cu. yds. crushed materials in stock pile; 160 tons MC-2 asphalt; 170 tons 120-150 asphalt; 70 tons RS-1 asphalt; 30,100 tons asphaltic conc. mixture in pavement; 1,800 tons 85-100 asphalt in mixture; 340 cu. yds. struct. excav.; 440 lin. ft. steel piling; 385 lin. ft. treated timber piling; 670 cu. yds. conc. in structures; and 157,455 lbs. metal reinf. in structures.

MARION COUNTY: Detroit Maintenance Building. State project. 36'x111' masonry block building with asbestos shingle roof, one mi. east of Detroit.

MARION AND LINN COUNTIES: Battle Creek Jct.-N. Albany Jct. Section of the Pacific Highway, north of Albany. Federal Aid Interstate Highway Project No. I-5-4(24) 235. 14.12 mi. roadside improvement. Requires approx. 300 cu. yds. excav.; 48 hrs. tractor and dozer time; 4,100 cu. yds. of topsoil; 900 trees; 11,000 shrubs; 19,000 vines; 1,000 lbs. grass seed; 12,000 lbs. organic fertilizer; 14,600 lbs. inorganic fertilizer; and 310 units of sawdust.

MORROW COUNTY: N. Unit, Bomber Range Road Section of the Bomber Range Road, about 5 mi. east of Boardman. FAP Nos. DS-406(1) and S-406(2). 9.34 mi. stone leveling course and oiling. Requires approx. 34,000 tons crushed material in leveling course and oiling; 170 tons MC-2 asphalt; 200 tons 120-150 asphalt; and 120 tons RS-1 asphalt.

MULTNOMAH COUNTY: Hillsdale-Barbur Blvd.-Hamilton St. Structures, Grading and Paving on Beaverton-Hillsdale and Pacific West Highways. 0.63 mi. highway roadbed, 0.67 mi. widening, 3 reinf. conc. partial viaducts totaling 654' in length, one 315' retaining wall, and one 553' reinf. conc. and setruct. steel overcrossing. FAP Nos. DUS-198(6) and DU-203(6). Requires approx. 42,000 cu. yds. embankment; 500 lin. ft. sewer pipe; 60 lin. ft. corr metal pipe; 620 cu. yds. conc. curbs. and islands; 800 lin. ft. metal guardrail; 19,000 tons crushed material; 28 tons asphalt; 4,200 tons asphaltic conc., 1,200 cu. yds. struct. excav.; 3,800 lin. ft. steel piling; 2,700 lin. ft. treated timber piling; 1,675 cu. yds. Class "A" Conc.; 405,000 lbs. metal reinf.; 67,000 lbs. struct. steel; 1,770 lin. ft. pipe parapet rail.

TILLAMOOK COUNTY: Tillamook Bay-Coleman Creek Section of the Cape Meares Loop Road, about 3.5 mi. north of Oceanside. FAP Nos. DS-1(6) and S-1(7). 0.87 mi. grading. Requires approx. 53,330 cu. yds. of excav.

WALLOWA COUNTY: Wallowa Lake Section of the Joseph-Wallowa Lake Highway, about 2 mi. southeast of the City of Joseph. FAP No. S-258.(3). 3.85 mi. metal guardrail. Requires approx. 20,500 lin. ft. galv. metal guardrail.

WASCO AND SHERMAN COUNTIES: Big Eddy-Rufus Section of the Columbia River Highway, east of The Dalles. State project. 15.6 mi. paving; also furnishing crushed materials in stock piles. Requires approx. 5,400 cu. yds. gravel borrow; 19,800 tons crushed materials in base and oiling; 10,000 cu. yds crushed materials in stock piles; 16 tons RC-3 asphalt; 560 tons 120-150 asphalt; 210 tons RS-1 asphalt; 37,600 tons asphaltic conc. mixture in pavement; and 2,260 tons 85-100 asphalt in mixture.

WASHINGTON COUNTY: Sunset Highway Undercrosisng of First St. at North Plains. 236' reinf. conc. bridge of 4 prestressed beam spans. FAP No. DF-186(18). Requires approx. 400 cu. yds. struct. excav.; 7,370 lin. "A" Conc.; 196 cu. yds. Class "A-A" Conc.; 89,500 lbs. metal reinf.; 16,000 lbs. prestressed beam spans. FAP No. DF--186(18). Requires approx. 400 cu. yds. struct. excav.; 7,370 lin. ft. treated timber piling; 477 cu. yds. Class "A" Conc.; 196 cu. yds. Class "A-A" Conc.; 89,500 lbs. metal reinf.; 16,000 lbs. prestressing steel; 500 lin. ft. metal handrail; 200 lin. ft. 8" metal drain pipe; and 300 sq. yds. conc. slab riprap.

THE MINIMUM HOURLY WAGE RATES TO BE PAID TO LABOR EMPLOYED ON THE ABOVE ADVERTISED AID INTERSTATE PROJECTS HAVE BEEN PREDETERMINED BY THE SECRETARY OF LABOR AND ARE SET FORTH IN THE SPECIAL PROVISIONS APPLICABLE TO THOSE RESPECTIVE PROJECTS. THE MINIMUM HOURLY WAGE PAID TO LABOR EMPLOYED ON FEDERAL AID PRIMARY AND FEDERAL AID URBAN PROJECTS SHALL BE AS FOLLOWS: SKILLED LABOR, $2.85 PER HOUR; INTERMEDIATE LABOR, $2.60 PER HOUR; UNSKILLED LABOR, $2.50 PER HOUR.

Prequalification of bidders will be required in accordance with the provisions of ORS 279.010 to 279.024, inclusive. Full information for bidders may be obtained at the office of the Oregon State Highway Commisison, State Highway Building, Salem, Oregon. Plans and specifications may be inspected at the same place and may be obtained by eligible bidders upon payment of $2.00 for each set.

Plans and specifications may also be inspected at the office of the Associated General Contractors in Portland, Seattle, Spokane, and Boise; and at the Builders Exchange Cooperative, Portland.

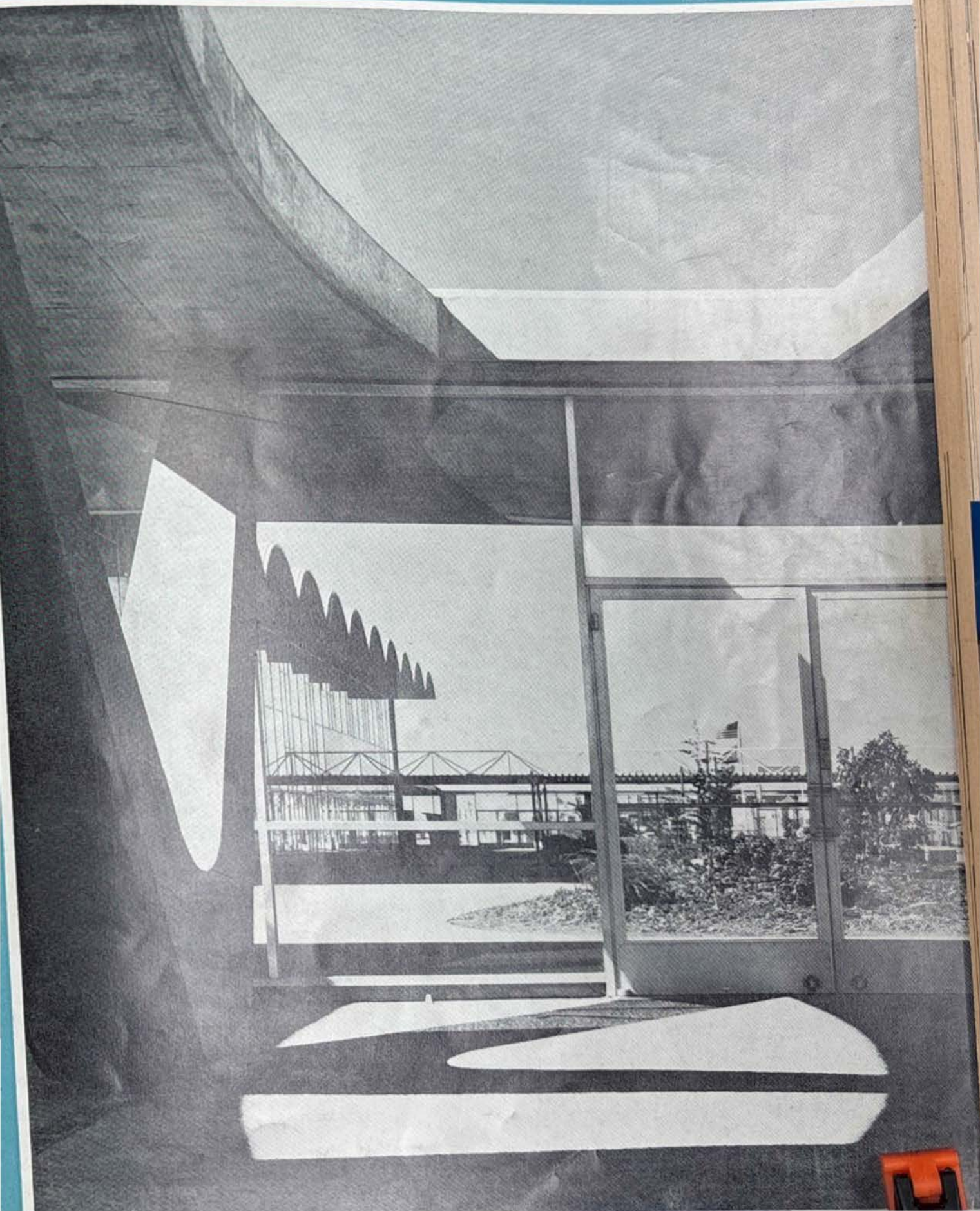
The right is reserved to reject any and all proposals or to accept the proposal deemed best for the State of Oregon.

OREGON STATE HIGHWAY COMMISSION
H. B. Glaisyer, Secretary

6292—9-18

& Allied Arts

pacific architect and builder



Model Motel

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Architect: **DOUGLAS VICARY**
General Contractor: **MORRIS MILROY**
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'Incor' Pumice Concrete Blocks Supplied by
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pa&b
Magazine of West Coast Architecture

pacific architect and builder

VOLUME 64, NUMBER 10 OCTOBER 1958

Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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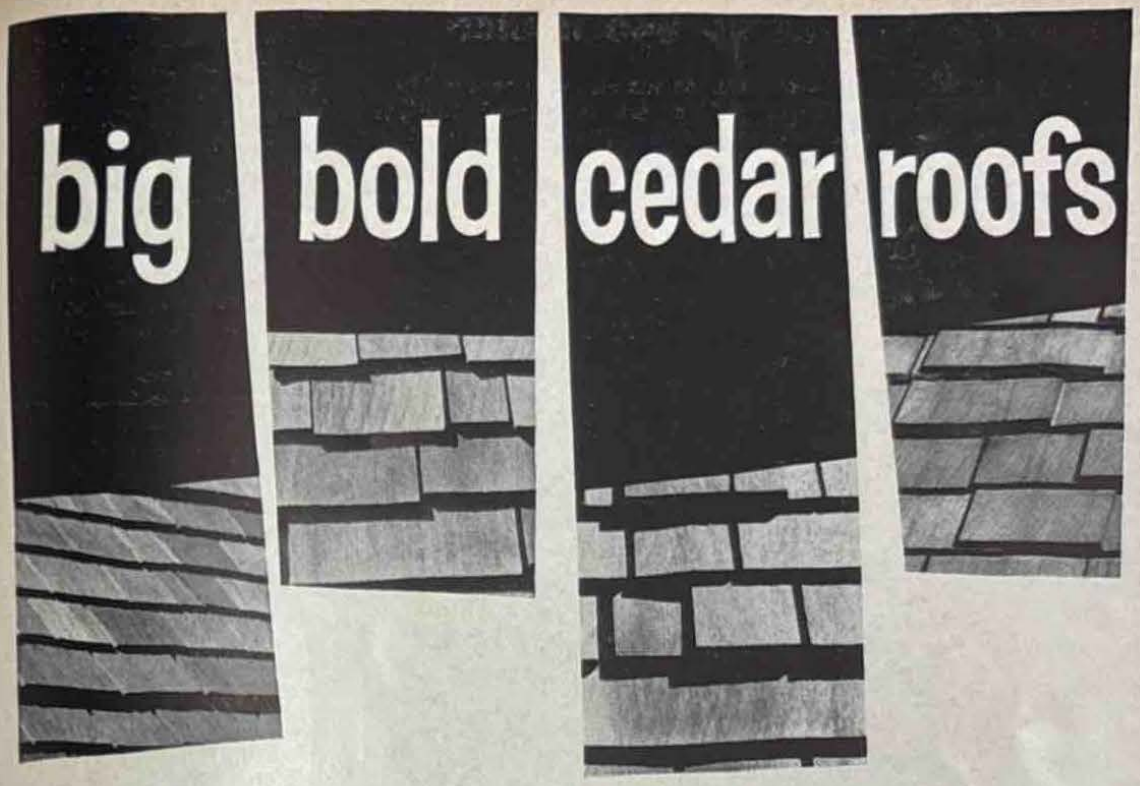
THE COVER

Westmoor High School, Daly City, Calif. Mario J. Ciampi, Architect; Karl Riek photo.



The qualities of cedar shingle roofing transcend passing fancy. Custom home designs–*of any period*–are characterized by expansive roof areas, distinctive roof textures, important roof pitches. The versatility and integrity of natural materials–notably cedar shingles for exteriors–afford the designer limitless scope, infinite expression.

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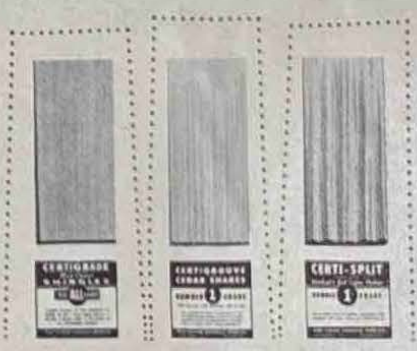


September volume up $46 million

For the fifth consecutive month western building permits show an impressive gain over last year's dollar volume. Total for September is $225 million, topping September 1957 by $46¼ million and also well head of 1956.

Gains are widespread. California, up $20¼ million, and Washington, up $20¾ million, lead the way. Oregon shows a $4 million increase and Montana and Idaho, each $½ million.

The figures at the end of the third quarter are even more impressive. The nine-month total is $2,023,917,633, an increase of $197¼ million over the corresponding period in 1957. If the permit values for the last three months maintain a bare average level, the 1958 total will be well above 1957 and will even pass the 1956 volume.

California is now running $111¼ million ahead of last year. The other four states also are well ahead.

	Jan.-Sept. 1958	Jan.-Sept. 1957
Calif.	$1,595,512,941	$1,484,242,453
Ore.	134,835,300	94,180,278
Wash.	251,334,948	211,563,681
Mont.	21,174,893	18,525,581
Idaho	21,059,633	18,165,848

ANALYSIS OF TYPICAL AREAS — SEPTEMBER

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	80	$ 1,201,790	16	$ 439,130	2	$ 280,800
King County	636	6,764,500	67	907,270	6	2,965,900
Seattle	524	3,081,092	168	16,280,260	1	75,000
Tacoma	104	485,150	41	256,315		
Los Angeles County	1,538	10,819,840	237	2,056,417	14	826,700
Orange County	345	4,520,176	26	245,400		
Sacramento County	1,030	10,053,716	81	1,091,430	9	630,384

Building Permits for 116 Western Agencies for September

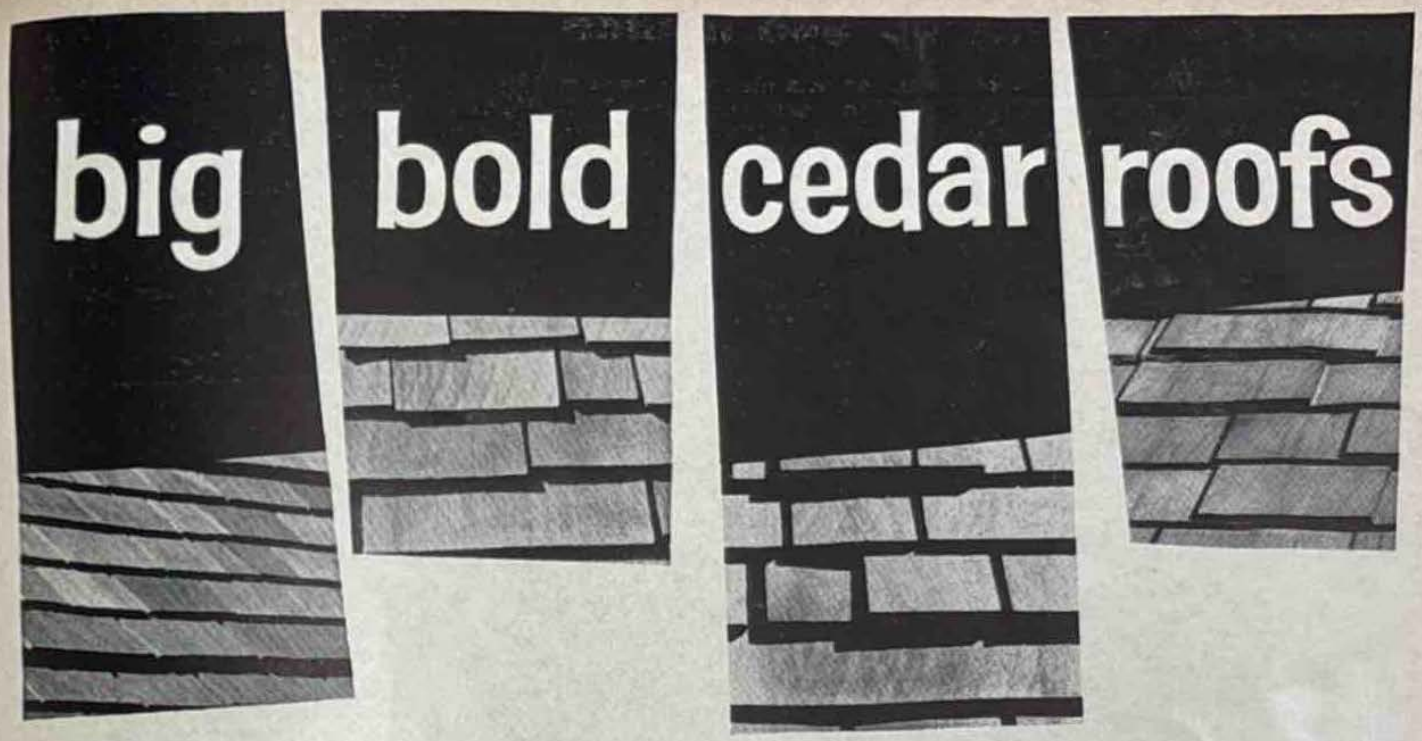
CALIFORNIA	Sept. 1958	Aug. 1958	Sept. 1957
Alameda County	$ 1,284,075	$ 2,559,650	$ 2,045,700
Anaheim	4,022,031	4,664,248	3,153,040
Bakersfield	1,041,324	673,101	518,689
Burbank	872,961	571,755	456,587
Contra Costa County	4,154,629	3,204,949	2,624,684
Fresno	1,363,068	1,364,177	378,279
Fullerton	1,587,453	683,856	1,215,964
Glendale	1,649,501	3,669,356	843,810
Inglewood	762,950	1,060,897	1,556,155
Long Beach	4,300,565	3,605,175	3,124,125
Los Angeles	35,714,232	42,969,513	39,475,272
Los Angeles County	14,923,872	31,388,085	18,476,672
Oakland	2,960,632	6,596,793	8,358,722
Ontario	1,048,935	555,651	687,383
Orange County	4,969,641	8,385,512	4,078,043
Palo Alto	1,753,122	492,964	2,045,986
Pasadena	1,817,051	1,450,636	1,159,412
Pomona	821,420	631,889	1,194,183
Richmond	559,914	673,163	225,424
Riverside	2,289,716	2,082,214	673,708
Sacramento	2,846,090	2,651,281	1,528,419
Sacramento County	11,886,893	8,124,657	3,813,199
San Bernardino	775,721	1,133,395	1,234,315
San Bernardino County	4,892,095	4,772,851	4,188,924
San Diego	9,723,534	11,172,677	7,222,031
San Diego County	7,581,200	7,156,200	5,354,700
San Francisco	10,887,842	6,219,468	6,868,739
San Jose	16,684,570	15,597,285	5,538,495
San Mateo	1,379,787	1,197,087	926,484
San Mateo County	2,597,230	1,548,907	2,536,200
Santa Ana	1,490,293	730,439	3,841,177
Santa Monica	1,206,897	784,960	1,522,286
Stockton	754,967	888,118	1,026,424
Sunnyvale	1,087,010	2,326,195	2,529,125
Torrance	871,634	2,664,053	1,632,495
West Covina	432,990	1,580,597	737,795
TOTAL	$162,995,845	$185,831,754	$142,792,646

OREGON	Sept. 1958	Aug. 1958	Sept. 1957
Albany	$ 135,500	$ 185,500	$ 92,450
Astoria	24,957	15,174	21,045
Baker	233,100	37,900	54,815
Bend	68,900	81,365	133,388
Coos Bay	24,045	193,890	50,815
Corvallis	464,085	537,595	100,185
Eugene	610,296	829,609	463,844
Grants Pass	116,250	189,630	72,950
Gresham	115,000	57,974	89,450
Hillsboro	107,589	68,674	100,244
Klamath Falls	149,126	86,615	191,661
LaGrande	146,542	6,930	962,450
Lane County	1,002,609	1,127,183	744,023
Medford	296,657	189,295	234,819
Multnomah County	6,860,407	2,619,723	2,291,670
North Bend	116,470	83,269	9,950
Oregon City	190,850	15,608	4,400
Pendleton	109,860	91,370	20,285
Portland	2,978,015	6,777,070	3,984,815
Roseburg	97,310	58,425	50,289
Salem	475,023	392,830	471,635
Springfield	118,311	176,655	155,810
The Dalles	90,431	65,362	93,258
TOTAL	$ 14,531,333	$ 13,887,646	$ 10,403,251

WASHINGTON	Sept. 1958	Aug. 1958	Sept. 1957
Aberdeen	$ 78,767	$ 132,687	$ 110,87
Anacortes	189,585	196,580	53,92
Auburn	335,195	143,500	75,00
Bellingham	658,600	97,160	172,20
Bremerton	139,040	153,480	65,15
Centralia	126,870	62,554	119,75
Chehalis	15,705	43,129	41,40
Clarkston	65,363	177,470	26,95
Ellensburg	51,532	74,023	70,26
Ephrata	42,867	53,475	18,10
Everett	355,644	189,500	209,94
Kelso	39,900	247,300	54,00
Kennewick	131,420	221,996	64,10
King County	10,718,495	9,846,150	4,664,34
Kirkland	213,850	41,300	78,61
Longview	220,475	168,335	275,04
Moses Lake	131,374	94,447	45,91
Olympia	156,561	115,353	73,83
Pasco	129,890	65,610	90,38
Pierce County	1,398,240	1,767,312	953,74
Port Angeles	49,000	75,125	87,25
Puyallup	123,600	87,195	96,82
Ritzville	Nil	750	6,85
Seattle	19,049,348	10,932,919	6,602,41
Shelton	21,800	65,100	96,80
Spokane	3,147,789	1,406,320	3,571,41
Spokane County	2,552,560	1,167,372	1,465,22
Sumner	26,732	35,750	37,00
Tacoma	1,140,532	1,899,131	1,504,06
Vancouver	404,463	421,424	389,30
Walla Walla	237,039	222,552	135,23
Wenatchee	676,819	493,249	415,14
Yakima	249,243	144,445	424,21
TOTAL	$ 42,878,298	$ 30,842,693	$ 22,014,90

MONTANA	Sept. 1958	Aug. 1958	Sept. 1957
Billings	$ 248,150	$ 1,375,275	$ 375,40
Bozeman	66,150	1,543,550	24,90
Butte	26,150	58,200	148,89
Glasgow	267,900	42,300	72,30
Glendive	78,850	17,300	67,50
Great Falls	744,425	906,979	577,03
Helena	234,913	275,110	151,54
Kalispell	28,500	103,050	94,30
Lewiston	51,700	24,000	8,00
Livingston	127,950	51,415	38,28
Miles City	62,610	125,830	22,79
Missoula	204,050	66,450	90,80
TOTAL	$ 2,141,348	$ 4,589,459	$ 1,671,75

IDAHO	Sept. 1958	Aug. 1958	Sept. 1957
Boise	$ 474,145	$ 472,611	$ 340,36
Caldwell	65,500	342,010	214,49
Coeur d'Alene	46,900	86,359	135,63
Idaho Falls	836,218	1,343,219	518,82
Jerome	318,950	17,050	27,37
Lewiston	60,740	359,953	94,06
Nampa	196,246	123,385	81,11
Payette	26,650	26,660	54,30
Pocatello	391,470	192,595	367,74
Sandpoint	30,100	15,750	14,92
St. Maries	51,900	1,000	49,90
Twin Falls	137,450	140,600	182,60
TOTAL	$ 2,636,269	$ 3,121,192	$ 2,081,32
GRAND TOTAL	$225,183,093	$237,272,744	$178,963,88



The qualities of cedar shingle roofing transcend passing fancy. Custom home designs—*of any period*—are characterized by expansive roof areas, distinctive roof textures, important roof pitches. The versatility and integrity of natural materials—notably cedar shingles for exteriors—afford the designer limitless scope, infinite expression.

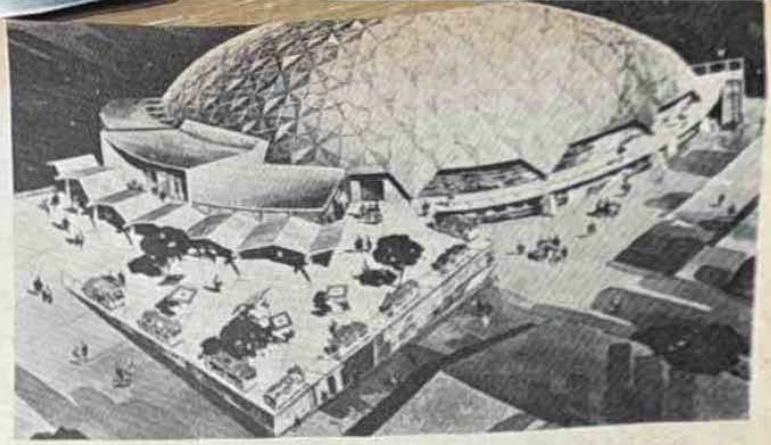
Shingles of Western Red Cedar have that vital *third dimension* . . . the thick butt-lines that catch the sun and create shadow accents of dramatic depth. Only cedar shingles offer the natural graining and rich texture of the genuine. Because only cedar *is* the genuine.

When you think of roof design . . . think *big* . . . think *bold* . . . *and you will think of cedar!*

RED CEDAR SHINGLE BUREAU

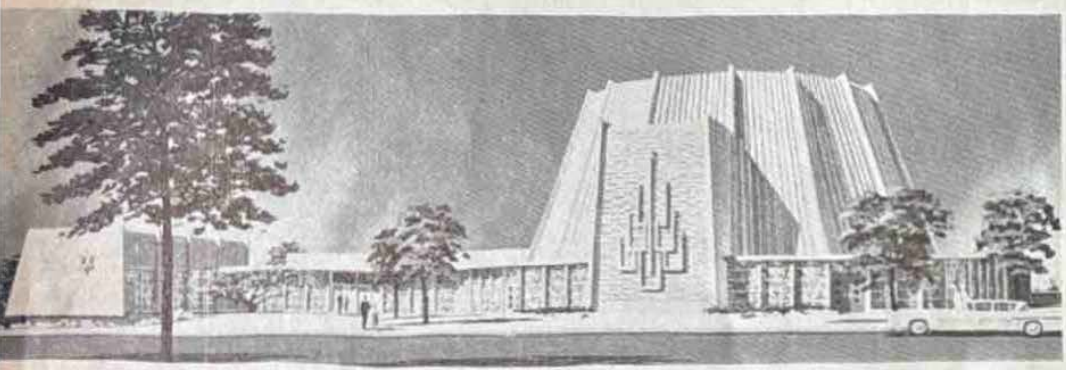
5510 White Building, Seattle 1, Washington
550 Burrard Street, Vancouver 1, B.C.

PROJECT PREVIEW



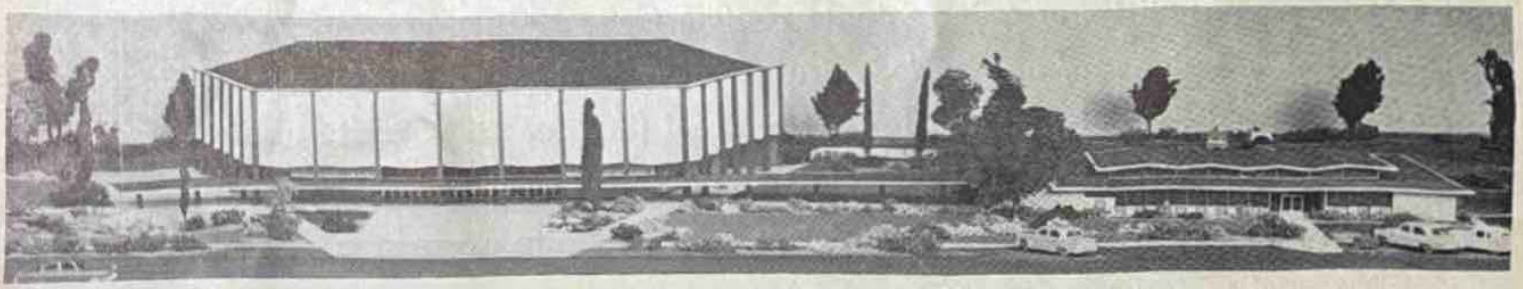
ALUMINUM DOME

will house physical education plant at Palomar College in San Marcos, Calif. Kaiser-developed shell (seventh to be erected in U. S. and Hawaii) will feature 575 curved, diamond shaped panels integrally strengthened with aluminum struts. Brick will be used to enclose perimeter and walls of classrooms, lobby, office and dressing rooms extending from front semi-circle. Architects: Paderewski, Mitchell & Dean.



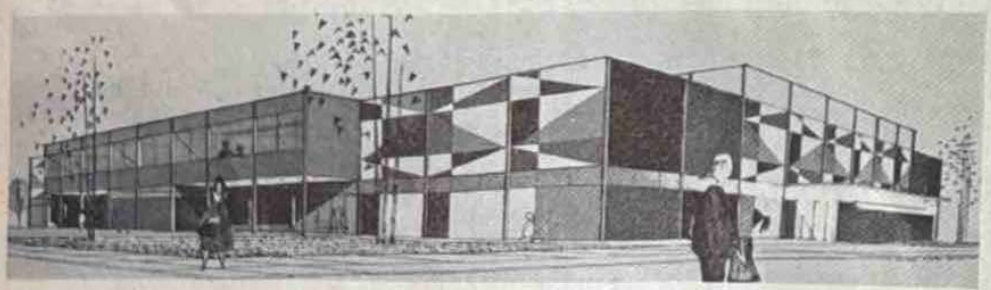
MAIN SANCTUARY

of Temple de Hirsch in Seattle will be roughly circular plan, 14-sided structure with 14 columns placed on edge of seating to afford clear view of ark (center of worship). Entrance court will open into foyer lounge connecting to intimate patio and to small proposed chapel. Stained glass grills and quartz aggregate will decorate exterior. Architects: B. Marcus Priteca and Detlie & Peck.



ARMORY-AUDITORUIM

to be constructed in Salem, Ore., will consist of two buildings connected by covered walkway to provide community, military and state fair facilities. Masonry and concrete project will have glued-laminated beams, wood and steel trusses. Auditorium will provide seating for 3,900 sports events, 4,300 for stage plays, concerts, etc., with space underneath for exhibitions. Architect: James L. Payne.



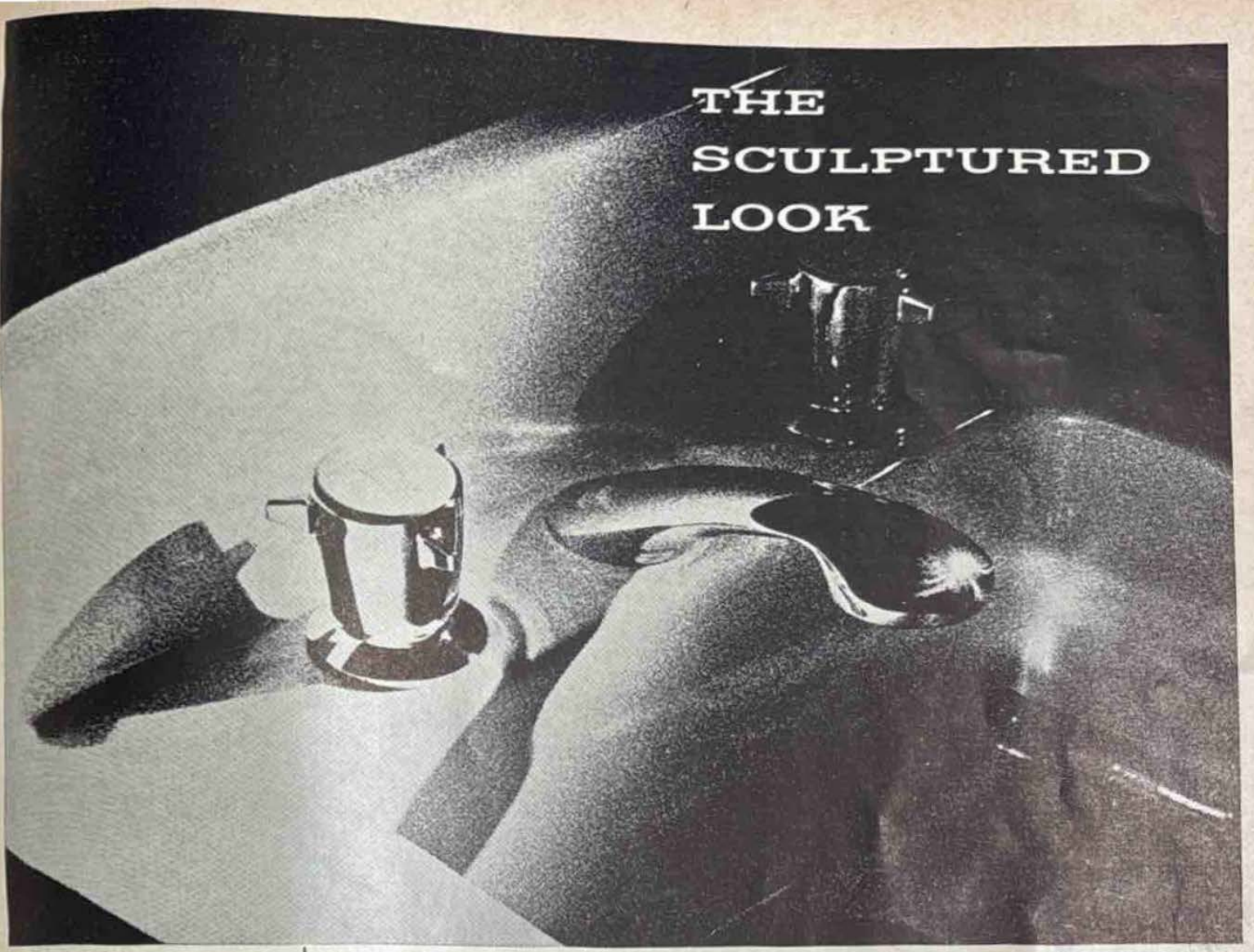
PHY ED BUILDING

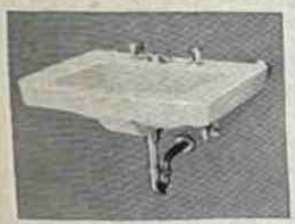
for senior high school in Puyallup, Wash., will be basically wood laminated frame with steel and concrete curtain wall, wood fiber roof deck and steel sash. Its 46,977 sq. ft. will include three playing floors, seating for 3,000 fans, three classrooms and two science laboratories. Architects: Robert Billsbrough Price; structural engineer: Horace J. Whitacre.

MASTER PLAN

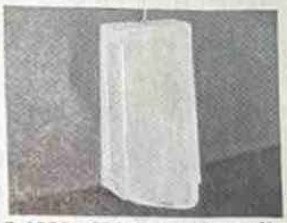
for development of $5 million campus at Southern California School of Theology in Claremont will have chapel as focal point of spiritual and educational plant for about 300 graduate students. First unit to be constructed will contain classrooms, offices and library. Architects-engineers: Pereira & Luckman; associate architects: Criley & McDowell.

THE SCULPTURED LOOK





B-3662—DRYDEN: 24" x 20" vitreous china lavatory with 8" combination fitting.



B-6901—SPARTON: Vitreous china 18" wide stall urinal with integral flushing rim.

B-4002-H—MARS: Wall-hung exposed vitreous china drinking fountain.

B-6700—QUIETON: Vitreous china syphon jet quiet-action floor-outlet bowl.

Briggs completely new design concept for commercial plumbing fixtures and fittings is backed by more than 70 years experience in manufacturing vitreous china.

Now, Briggs brings to its new line of commercial plumbing fixtures and fittings the contemporary look of sculptured form. Each unit and fitting, designed by Harley Earl, Inc., incorporates the same clean, simple lines—giving your plans a continuity of design. And the entire line is backed by more than 70 years experience in producing fine vitreous china of constant quality. Available in Briggs six colors or white. Complete specifications are available to you on request.

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BRIGGS

BEAUTYWARE

NEWS

National AGC nominates Seattleite to top post

James W. Cawdrey of Seattle, vice president of the Associated General Contractors of America, was nominated to the top post at the midyear meeting of the governing and advisory boards in Atlanta last month. Tapped to succeed the building contractor was John A. Volpe, former federal highway administrator. Following a mail ballot, installation will take place at AGC's 40th annual convention in Miami Beach in January.

CAWDREY

Long active in AGC, Cawdrey has served as president of the Seattle Chapter and as chairman of the Building Contractors' Division of the national association. A member of the firm of Cawdrey & Vemo, he has been in the construction industry since 1934 and is a graduate of the University of Washington.

In other business at the Atlanta sessions, the 500 delegates gave several important reports. Among them was a disaster relief plan for use of the industry, which is expected to be spelled out in detail in Miami Beach. Still another was a report on labor problems which noted that local representatives of labor unions generally have not followed through on the 10-point program for increased productivity and removal of featherbedding announced at the last AGC convention in Dallas. It further charged that "the growing power and aggression of industrial unions and their leaders poses a serious threat to the construction industry."

AGC president Fred W. Heldenfels Jr. of Corpus Christi, Texas, remarked that economic activity appears to be "on the upgrade" and called attention to the responsibilities borne by AGC members "as leaders of the nation's largest industry and the high opportunity they have for serving the public good as well as their own interests."

Other speakers included Jerome D. Fenton of Washington, D. C., general counsel for the National Labor Relations Board, who addressed the contractors on the question of legality of hiring halls; and Dean J. Barron, assistant director of the Audit Division, Internal Revenue Service, who spoke on equipment depreciation.

Building code parley ends in stalemate

Representatives of 83 organizations—probably the largest gathering of national groups interested in home building ever to assemble in one room—met in New York in September to discuss whether an American Standard Association project on building code requirements for one- and two-family residences should be initiated.

When the meeting broke up, no conclusion had been reached and the general feeling seemed to be that such a proposed code would never come to be. Fifteen of the organizations present said they would cast their vote by letter. Count on the others: yes, 24; no, 17; not voting, 27.

Original request for the development of residential building codes was made to ASA last July by publisher Henry R. Luce on behalf of 14 groups concerned with home building.

Housing conference set for Hawaii next month

Home builders from Hawaii and the mainland will gather in Honolulu November 3-6 for the second annual Mid-Pacific Housing Conference, with the Hawaiian Village Hotel as convention headquarters. It will be jointly sponsored by the Home Builders Association of Hawaii and the Home Builders Institute of Los Angeles, Orange and Ventura counties, together with the National Association of Home Builders.

Highlight of the meeting will be a mortgage clinic conducted by Hugh Askew, NAHB director of mortgage and finance. A workshop session devoted to conventional loans, procedures and requirements will find builders, architects and bankers exchanging ideas. David Bohannon, president of the Urban Land Institute, will discuss hillside developments; Bill Ridgeway, the development and management of shopping centers.

Briefs

• Stanford University has received a $50,000 grant from the Ford Foundation to study a community center for older people in Menlo Park, Calif., in an effort to help set minimum standards for developing facilities of this kind.

• Central Association of Seattle has been organized by a group of businessmen interested in revitalizing the downtown core area, with particular reference to freeway development, mass transportation, off-street parking, beautification, renewal of fringe areas and provision for convenient recreational and cultural activities. Executive vice president is Paul W. Siebert, for the past three years director of the public relations division of Frederick E. Baker & Associates, advertising agency.

• Rehabilitation of 890 acres for a patch of Los Angeles southeast of the intersection of Main Street and Washington Boulevard will have "priority" among future urban renewal projects. An estimated 67% of the homes and buildings in the area are adjudged "substandard to the extreme" by the City Health Department, while 74% of all structures have certain deficiencies.

• Showers in new home construction must have subfloors which are pitched ½ in. per foot to weep holes in the subdrain in order to pass inspection standards set by the 1958 Uniform Plumbing Code enforced by the majority of municipalities and county building departments in the 11 western states.

• Nation's building industry has made a strong comeback from its 1957 slump, Norman P. Mason, FHA commissioner, said in San Francisco last month, using that area office as an example. Applications for loans for the first six months were up 145% compared with the same period last year. New home applications gained 88%; repairs to existing homes gained 222%.

• Boom in construction of shopping centers is dwindling after 10 years of unprecedented building and developers now must search diligently for a feasible site, reports the Urban Land Institute of Washington. It cites the trend toward bigger supermarkets as one factor discouraging new projects.

• Building Research Institute has re-elected president Charles H. Topping, senior architectural and civil consultant of E. I. duPont de Nemours & Co., Inc., and the Building Research Advisory Board has named William Gillett, vice president of Fenestra, Inc., to succeed E. X. Tuttle as president.

• Average injury frequency rate (number of disabling injuries per million man-hours) for employees of construction companies submitting reports to the National Safety Council showed a 3% increase in 1957 over the previous year. Average injury severity rate (number of days lost per million man-hours) jumped 10%.

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CANTON 1, OHIO

National poll picks 'seven wonde

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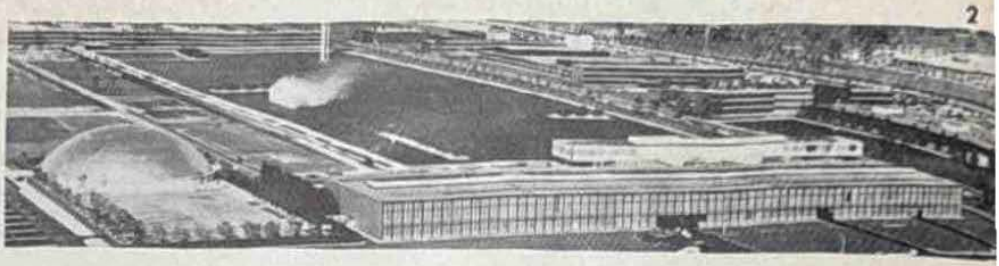

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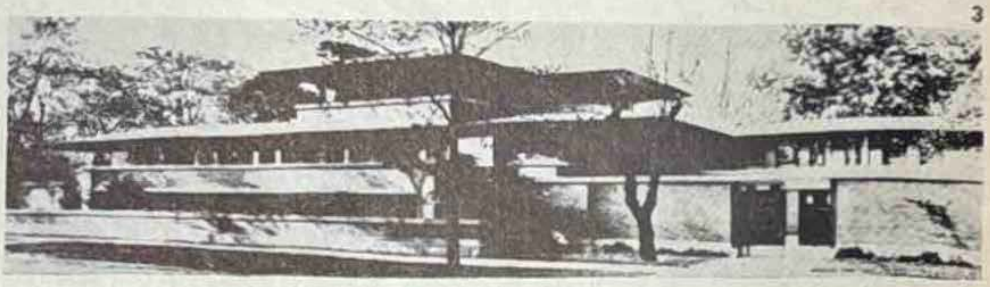

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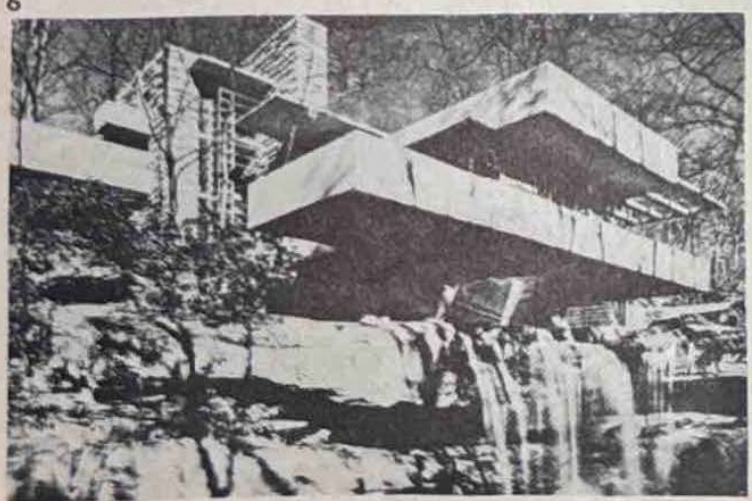

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# of American architecture'

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2. General Motors Technical Center, Warren, Mich.: Eero Saarinen & Associates. This project consists of 25 buildings on 330 acres, north of Detroit, and has been cited as a prototype of the industrial development of the future.

3. F. C. Robie House, Chicago: Frank Lloyd Wright. A milestone in the history of modern architecture because of its organically flowing space in which rooms were no longer conceived as boxes, it recently was saved from demolition and soon will be turned over to a national historical society.

4. Lever House, New York: Skidmore, Owings & Merrill. The tower of glass and steel on Park Avenue reflects the comfort and the convenience, the relaxed and pleasant atmosphere of a well-appointed home.

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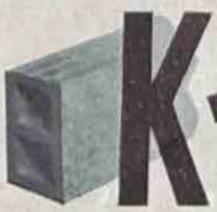
Ford Motor Company, Milpitas, California
Architect: Albert Kahn, Associated Architects & Engineers
Glazed structural tile by Kraftile

CHEER FOR
THE ILL & INJURED

A sense of cleanliness brings a feeling of comfort and security to the ill or injured. Color gives them optimism and quiets their fears. In this First Aid Room, cheerful attractiveness and hospital cleanliness will go hand in hand for the life of the building. Walls are colorful, gleaming Kraftile, chosen because of its low annual cost. Harsh, heavy-duty soaps and detergents, cleansing powders, bleaches and antiseptics cannot dull the sheen of Kraftile surfaces. Repeated scrubbings throughout the day, year in and year out, cannot wear it out. Chemicals and bleaches cannot change or fade its glowing colors. Construction with Kraftile goes with astonishing speed. When you specify Kraftile glazed *structural* tile, costs are competitive. Kraftile construction requires no carpentry, plastering or finishing. Standard sizes and shapes for every need, in 12 architect-selected colors and clear glaze. Write for specifications, graphic standards, and color samples.



KRAFTILE COMPANY

NILES, CALIFORNIA

National poll picks 'seven wonde

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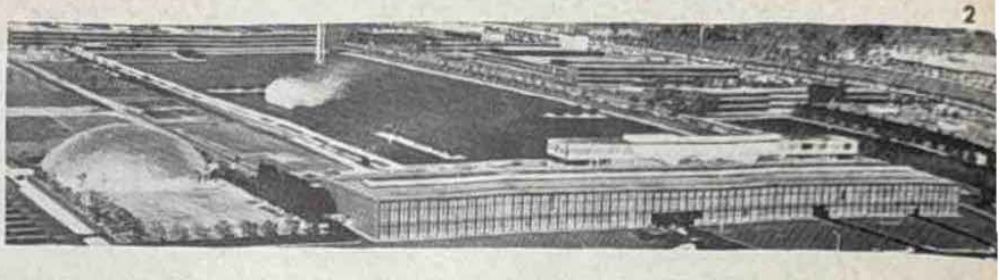

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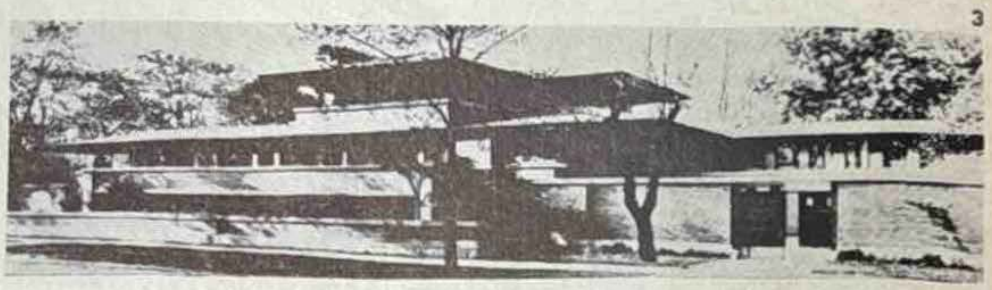

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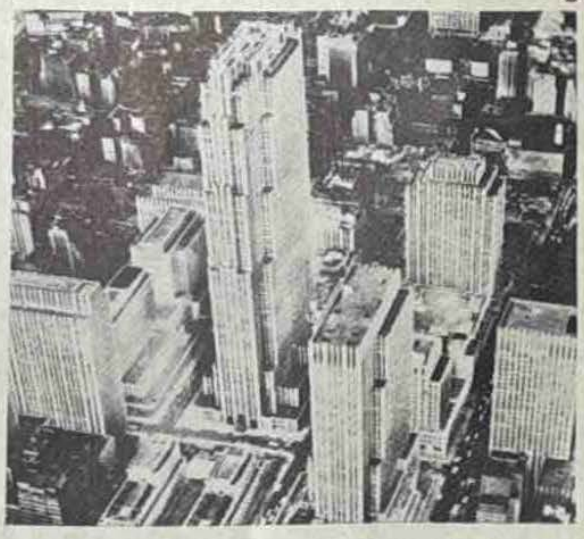

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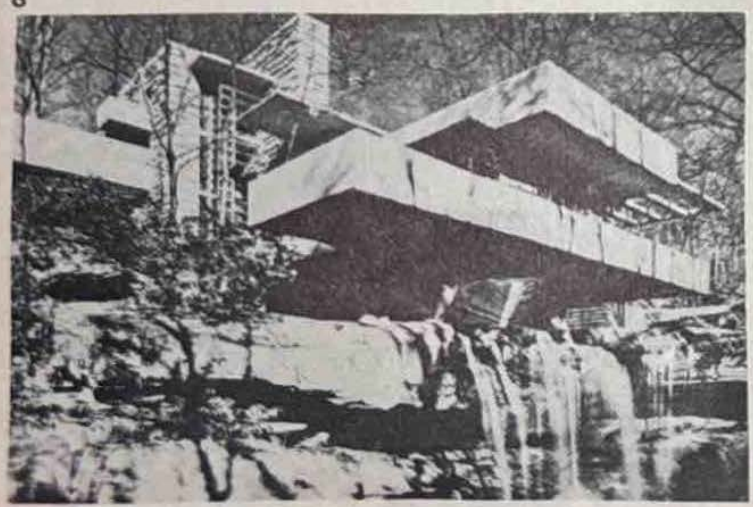

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KRAFTILE COMPANY

NILES, CALIFORNIA

Planning board of today has depth in its thinking, activity, staff—and here's why

Journeyman planner--'have pencil, will travel'

by JOHN AGUIRRE JR., AIA

NEW DIRECTIONS in city planning have been ushered in by municipalities, yet they have failed to recognize or reward them. These directions include the planning board of depth and the use of outside consultants or "journeyman planners."

This movement has been spearheaded by two strange allies: the journeyman planners themselves and the relatively high wages in the architectural field. The journeyman planners, with their slogan "Cities are for people," were usually ignored except for a few crusading writers such as Lewis Mumford and as a topic at monthly dinner meetings. These men fighting for their ideas insisted that cities were more than simply buildings surrounded by streets. Their failure, except in a few isolated cases, is easily explained: no one would hire them to do a job of city planning. It is the same dilemma confronting an architect with great ideas and no clients.

This depth or social consciousness to planning was something that everyone agreed was a job to be done "when we get caught up with immediate tasks at hand." Meanwhile the American city proceeded on its happy road of haphazard planning. Thousands of homes were allowed to be constructed in subdivisions, often without provisions for school, street, park and even sewage disposal facilities. However, these subdivisions always included in their master plan the glittering shopping center with its labyrinth parking lots.

Freeways were allowed to amputate cities, cutting off neighborhoods, destroying community values and giving small communities a split personality. The few cities that did hire the idealistic planner to head their planning board often failed because the existing planning staffs usually consisted of retired politicians and the young untrained draftsman, or because the planner lacked authority or a cooperative city council.

The breakthrough for planning came, first of all, with the postwar emergence of the journeyman consultant. An old professional, he was given new blood when cities, large and small, discovered that they could do better planning by retaining outside consultants. Outsiders were also free from local partisan thinking and the normal pressures of living in the same community. These consultants provided still another feature: they were more economical to use for the taxpayer, as opposed to hiring a comparable staff on the public payroll. The happy results were that the cities, after their master plans were designed, could then hire a small staff for administrative purposes.

The planning board of today has new muscles in its staff, which now consists of sociologists, economists, geologists, statisticians and engineers in addition to the traditional architect-planner. Comparing this staff with the customary planning board that usually was headed by an architect or a retired politician and staffed by young draftsman helpers, the change is great.

Second cause for the new face in planning was that the high wages of the construction industry precluded the exclusive use of the trained architect-planner. Civil service then turned to what appeared to be a second best choice—the social scientist, the economist, the geologist and the business school graduate for its expanding staffs.

Among the leaders in this movement were the Los Angeles area planning boards. The Los Angeles County Planning Commission in 1950-51, during the enlargement of its professional staff, hired about 20 young college graduates. Only two of this group were architects, the remainder being sociologists, economists, business administrators and geographers. Fifteen of these people are now planning directors or principal planners for small cities in the southern California area. The scope and enrichment of planning can be seen from this single illustration.

The journeyman planner has thus added to the depth and prestige that planning needed. It is more difficult for a legislator to ridicule or ignore an expert's recommendations that are costing several thousands of dollars of tax money. This same legislator's attitude toward a civil servant, whose position is often at stake, is usually different and sometimes detrimental to the desired result.

These consultants have approached their planning assignments with the zeal of a freshman and the judgment of a professional. Occasionally, this zeal has overwhelmed their client cities, who had thought they were getting a slum clearance study and were presented a few months later with a master plan for a downtown area.

A slogan among these dedicated planners appears to be "Have pencil, will travel," for these peripatetic professionals will go anywhere for a commission. One prominent Los Angeles office has numbered as its clients at least three foreign organizations, among them the United Nations, in addition to planning studies throughout California. Another consultant in Los Angeles travels up and down the state designing or revising master plans with the regularity of the seasons.

For the well-known planners, the field appears lucrative as a retainer of $25,000 per year plus expenses is not an unusual fee for a large study. In addition, the architect-planner is often selected to design one or more of the proposed major civic buildings. One prominent architect designed an award-winning master plan and later received a major share of the architectural commissions for the new metropolis. The vigor and creativeness of these journeymen planners has established well their roll in civic design and has partially alleviated some of the ills that irresponsible enterprise and unsuspecting government sometimes foster on the city.

The question arises, however, if the best planning under the most capable administrators is enough to combat the future blight of the substandard tract, the dense business area and the cancerous surgery of the freeway. Can the planner cure traffic by creating more streets? Can he tamper with the tax structure by calling a halt to commercial over development? Can he prohibit 1,000-unit apartment developments in 25-ft. access streets with little parking provisions? The journeyman planner has his pencil and will try; but he still needs the support of the citizen and the businessman.

This article is reprinted from the August 1958 Bulletin of the Southern California Chapter, AIA.

Westmoor High School, Daly City, California

•

MARIO J. CIAMPI, Architect
ALLYN C. MARTIN, PAUL W. REITER, Associates

ISADORE THOMPSON, Structural Engineer

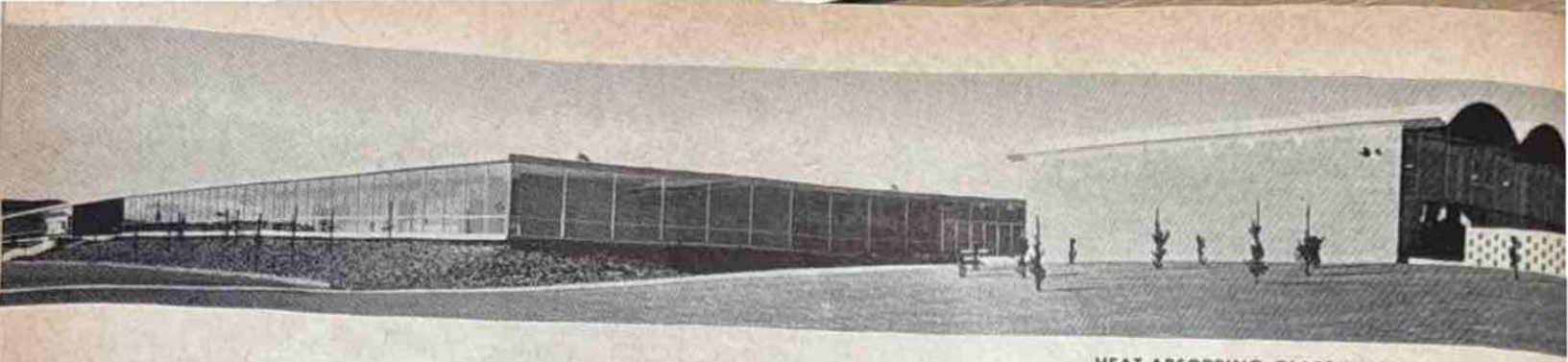
BUONACCORSI & MURRAY, Mechanical Engineers

HAROLD A. WRIGHT, Electrical Engineer

LAWRENCE HALPRIN, Landscape Architect

THEO G. MEYER & SONS, General Contractors

Bold use of materials, colors, conceptions



HEAT-ABSORBING GLASS WALLS surround outside of school under cantilevered corridor roof. Precast concrete barrel vaults—24 in all—roof gymnasium.

WESTMOOR HIGH SCHOOL

ATOP A HIGH PLATEAU overlooking Daly City, the Pacific Ocean and most of the Santa Clara Valley sits one of the most provocative educational plants of our day, representing the architect's effort to meet what he calls the "challenge of not only solving in a technical way all the material considerations necessary for the construction of a secondary school but, more important, an approach which takes into account psychological and philosophical considerations.

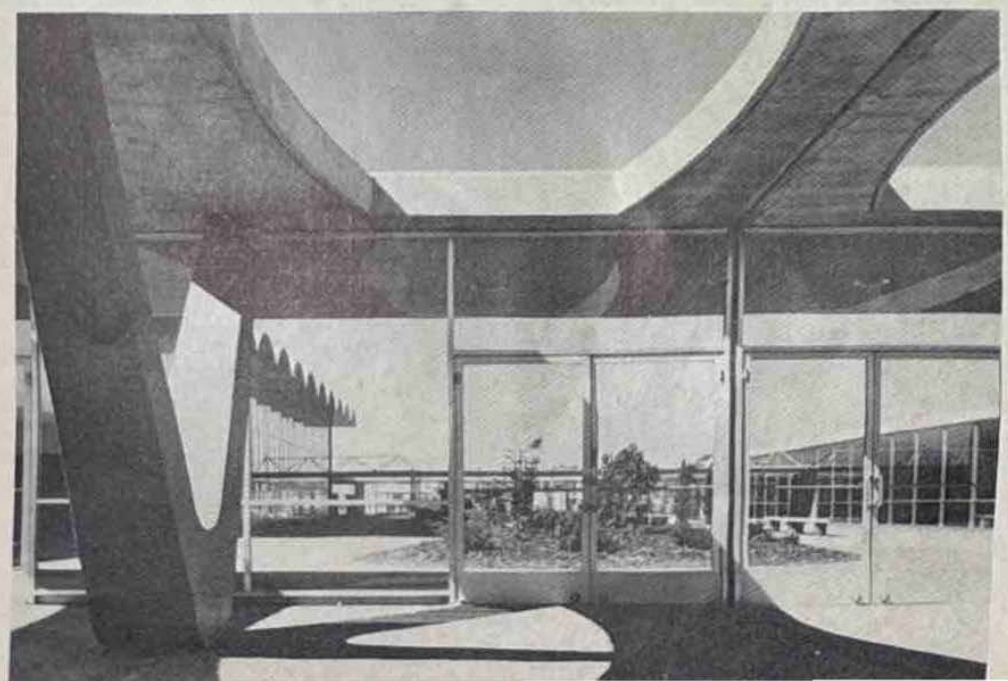
"This challenge obliges the architect to attack the problems in the design of a school plant with the fundamental concern of creating an appropriate teaching environment. This environment must not only provide for the demands which are manifest at the time of construction but must also anticipate the probable course of our future cultural development. The school plant must be utilized as a motivating force which will offer educational opportunities for students and will orient the community in its broadest concept."

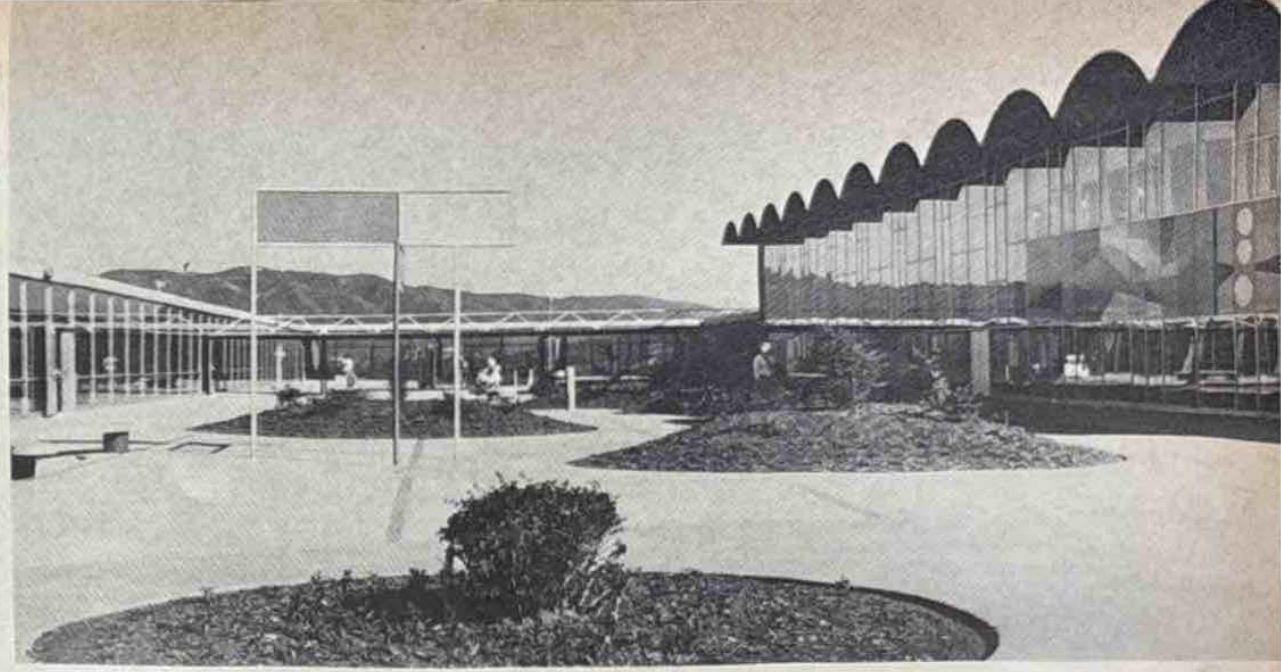
For several years, the architect explains, the trend in the design of secondary schools has followed a pattern beginning with the wing and finger type plans—concepts which have resulted in complex problems for the designer and the client. "The finger type plans require considerably greater land area, create maintenance problems with their many courts, increase heat losses through glass, create expensive light control conditions and add to the general cost of utilities."

The architect's aim for Westmoor was to design a tight, compact structure to provide students a maximum of comfort under all weather conditions (fog and wind abound) and permit the use of interior classrooms as viewing rooms or controlled work areas. Concentration of classrooms made it possible to introduce mechanical cores between them, housing all of the heating and ventilating equipment, plumbing, electrical and utility lines. Non-structural partitions may be moved if desired. Omission of natural light (in an area where schools generally use artificial lighting 90% of the time) eliminates solar heat problems and light brightness contrasts and reduces maintenance costs. In addition to the spacious central mall, several small open courts off such areas as the library and science, homemaking, mechanical drawing and teachers' rooms create a change of pace and help to relieve the tightness of the plan.

Exterior of the main structure consists of a cantilevered precast concrete roof and a glass skin which forms the principal freeway of circulation and feeds into secondary aisles and adjoining areas. Low, flat cast-in-place spaces are broken by high, long-span rooms roofed with thin shell concrete precast barrel vaults. The 145,000-sq. ft. school was built on a 65-acre site, 42 of which are devoted to the high school, permitting 113 sq. ft. of floor area per student for the 1,300 enrollment housed in the first increment of the program. Cost per square foot, excluding site work, was $14.72, an economical figure in light of the end result. James MacConnell and the School of Education at Stanford University acted as consultants.

PRECAST CONCRETE ARCHES (light blue) and roof overhang (light brown underside, white trim) are set off by brick walls (red). Glass areas are framed in aluminum.

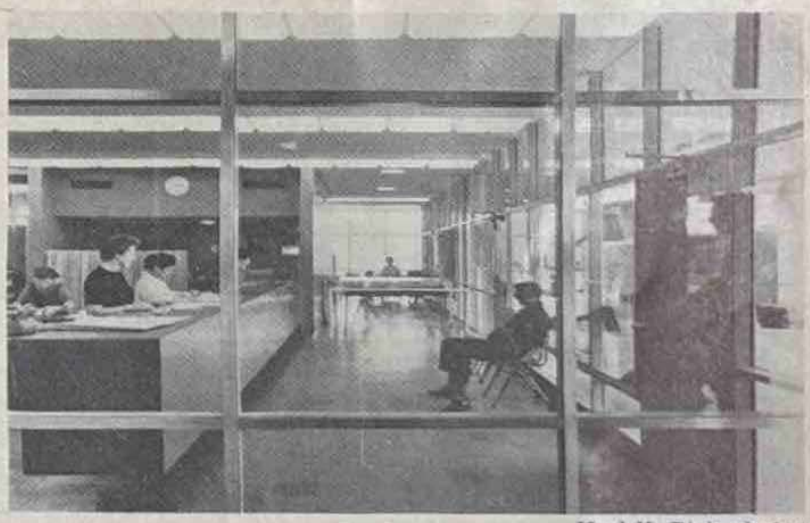




ENTRANCE COURT provides large outdoor space for student gatherings, helps to define public and academic-vocational areas. Gymnasium's abstract mural combining orange, red, purple, blue, green, yellow and black is work of Anne Knorr.

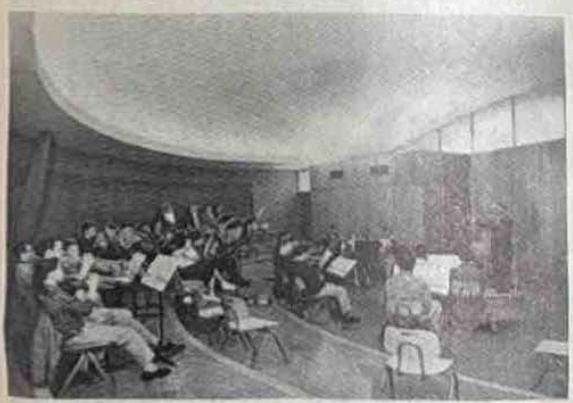
STEEL AND GLASS CORRIDOR uses colored panels to create visual interest, isolate teaching spaces.

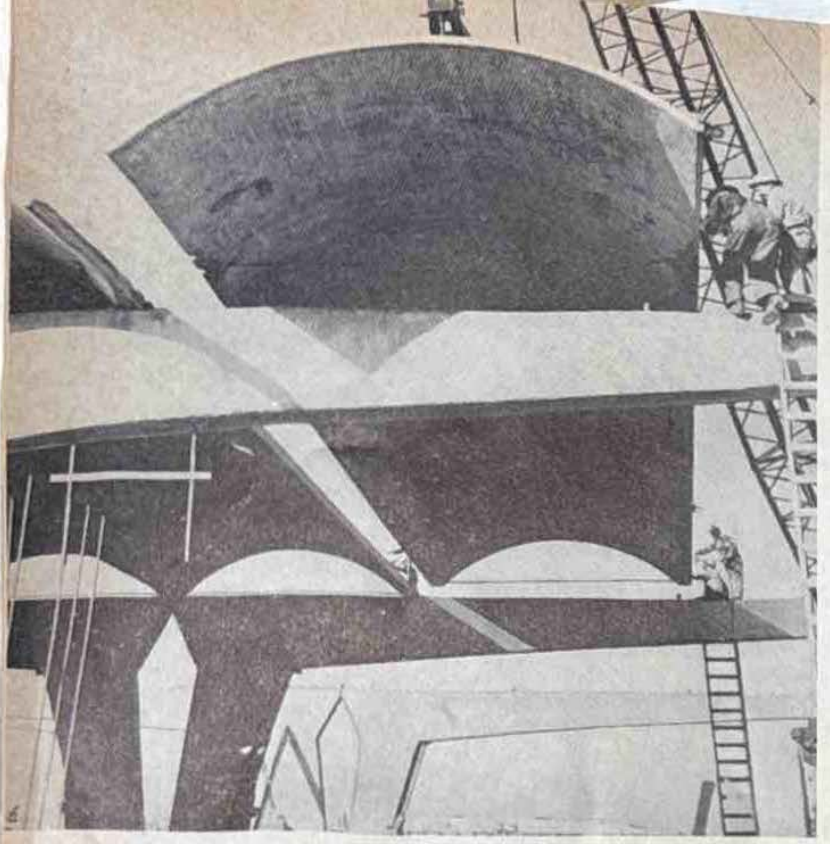
WIRE SAFETY GLASS separates offices, classrooms from corridor. Room partitions are soundproof.



Karl H. Riek photos

CIRCULAR MUSIC ROOMS have depressed floor of varying levels for band and orchestra. Thin concrete domed roof offers change in environment.





THIRTY-THREE BARREL VAULTS, each 61 ft. long by 3½ in. thick and weighing 20 tons, are world's largest. Precast in groups of six, they were erected exactly to tolerance of ½ in., covering 35,000 sq. ft. of floor space in four days. Repetitive forming of shells reduced construction cost to considerably less than would have been possible with conventional design.

WESTMOOR HIGH SCHOOL

OUTLINE SPECIFICATIONS

Structure: foundation and frame: reinforced concrete—cement for all concrete supplied by Permanente Cement Co.; roof: lightweight cast-in-place concrete and thin shell precast barrel vaults over gymnasium and shops; structural walls: brick—Port Costa Brick Works; concrete block—(Basalite) Basalt Rock Co.; curtain walls: aluminum—Aluminum Company of America; steel mullions—United States Steel Corp.; heat-absorbing glass—Owens-Illinois Glass Co.

Exterior Finish: exposed red brick and painted concrete.

Roof Surfacing: composition—Flintkote-Pioneer Division.

Doors: aluminum—Kawneer Co.; wood—painted Douglas fir slab.

Floor Surfacing: asphalt tile—Kentile, Inc., ceramic tile in toilets—Gladding, McBean & Co.; maple in gymnasium.

Partitions: metal lath and plaster; porcelain enamel—Apco Porcelain Co.; wire glass—(Misco) Mississippi Glass Co.

Interior Finish: painted plaster; tile wainscoting in toilets—Gladding, McBean & Co.

Ceilings: acoustical plaster—California Stucco Products Co.

Heating: unit ventilators—Carnes Corp.; unit heaters in gymnasium and shops—Western Blower Corp.

Lighting Fixtures: low brightness fluorescent—All-Brite Fluorescent Fixtures of California.

Plumbing and Sanitary: water closets and lavatories—American-Standard; drinking fountains—Haws Drinking Faucet Co.

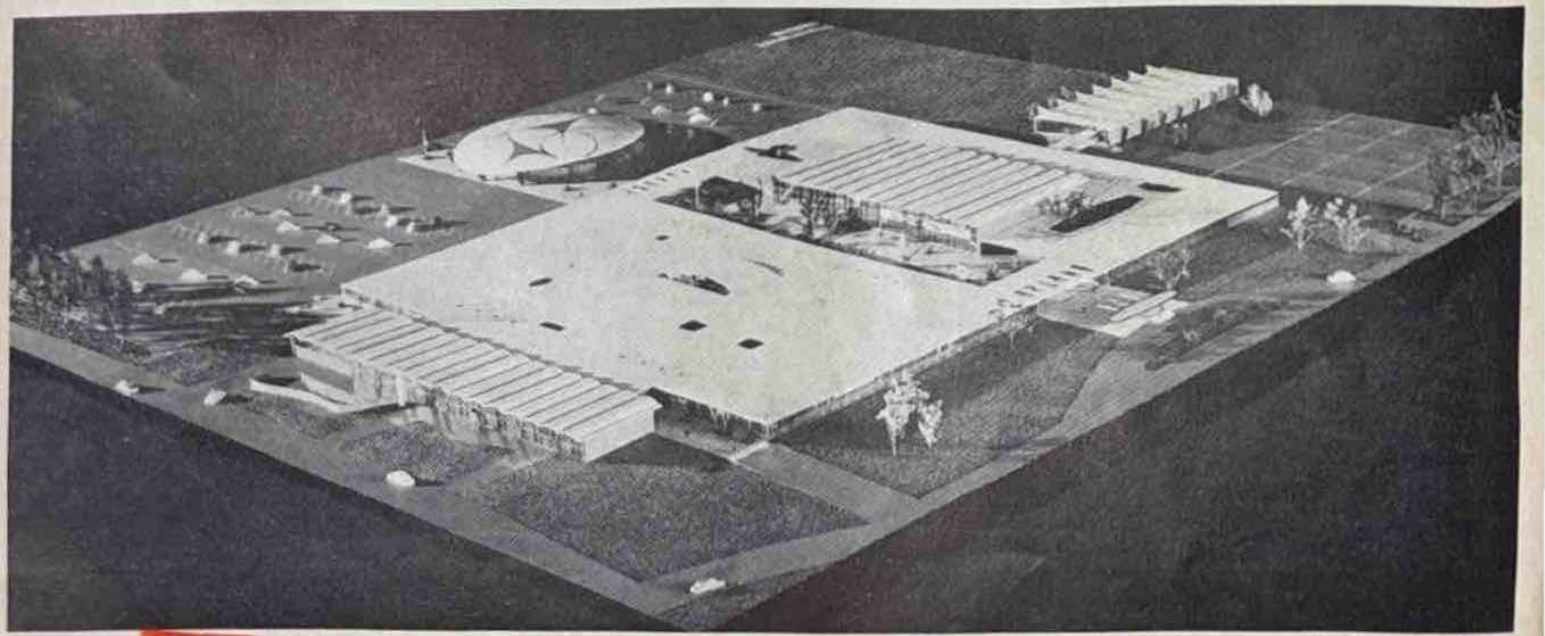
Total Area: 145,000 sq. ft.

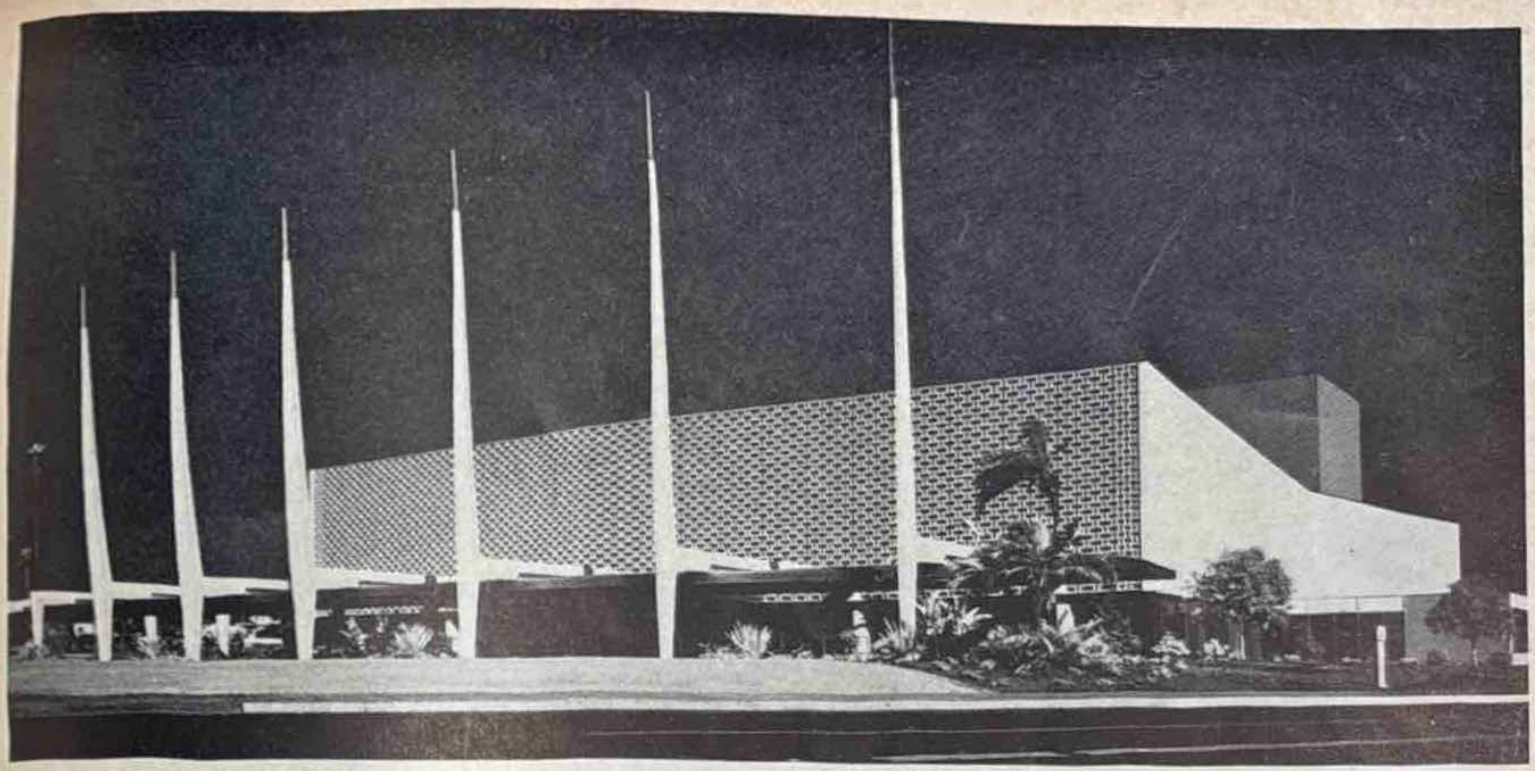
Total Cost: $2,530,000.

Cost per Square Foot: $14.72 (excluding sitework).

Date of Completion: September 1957.

FLAT SLAB CONSTRUCTION is broken only by barrel vaults shops (in foreground) and gymnasium (adjoining central mall). Among proposed projects in building program: community auditorium (at left) and swimming pool (at rear).





Vanguard Photography

Civic Auditorium
Santa Monica, California

•

WELTON BECKET & ASSOCIATES
Architects-Engineers

DR. VERNE O. KNUDSEN
Acoustical Consultant

C. L. PECK and MILLIE & SEVERSON
General Contractors

Planned around largest 'floating floor'

BEHIND six 72-ft. pylons and a beehive grillwork of precast concrete is an auditorium designed to accommodate athletic events and trade shows as well as symphonies and operas. It is actually planned around the nation's third and largest "floating floor," two-thirds of which is a hydraulically operated tilting platform, lowering at the stage and rising near the rear of the house to give a 5-ft. difference in elevation. When the floor is tilted (accomplished through the use of concrete slab on steel frames and metal pans) in "full auditorium" position for stage presentations, it will seat 2,700 persons; or it can be adjusted to level position for basketball, tennis or boxing.

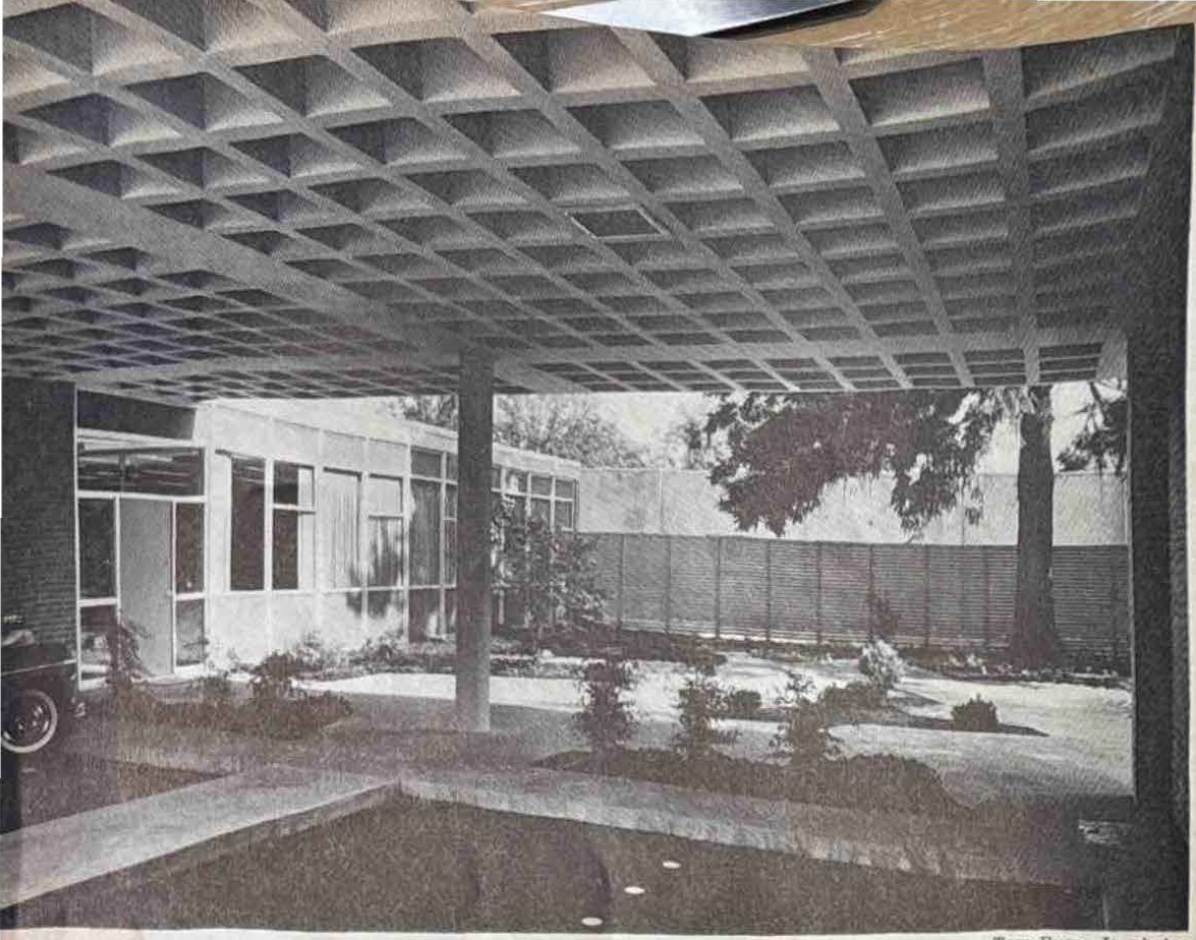
Tests show that acoustically the auditorium meets its wide range of functions in a highly satisfactory manner. Comments Dr. Verne O. Knudsen: "In respect to its reverberation properties, it deserves a rating even higher than that of the Royal Festival Hall in London, which has been acclaimed by acoustical critics and orchestral conductors." Back wall of the main auditorium consists of hollow-rib perforated panels and 2-in. glass fiber insulation; remainder of this area is finished with hardwall plaster, curved surfaces deflecting sound.

Orchestra pit, 65 ft. long and 12 ft. wide at the center of the house, serves as an elevator to bring large sets up from storage areas below. Hydraulically operated, it may be stopped at four positions.

A committee room located in one of two wings on either side of the auditorium has a capacity of 700 and dining facilities for about 500. It may be separated into smaller units with sound-retarding folding partitions or the entire area may be opened up to the auditorium for exhibition purposes, totaling 31,500 sq. ft.

Entrance lobby, containing 7,500 sq. ft. and two circular concession stands at either end, has acoustical tile ceilings. Ticket booth, incorporating eight outside and inside windows, and two lounge areas also are provided in the main lobby. An upper level concourse, also with a concession stand, is reached by two grand staircases.

Public parking provided for 500 cars in well-lighted areas around the building may be increased to 870 by employing attendants.



Tom Burns Jr. photos

Southern Oregon District Office
United Pacific Insurance Co.
Eugene, Oregon

•

WILMSEN & ENDICOTT
Architects

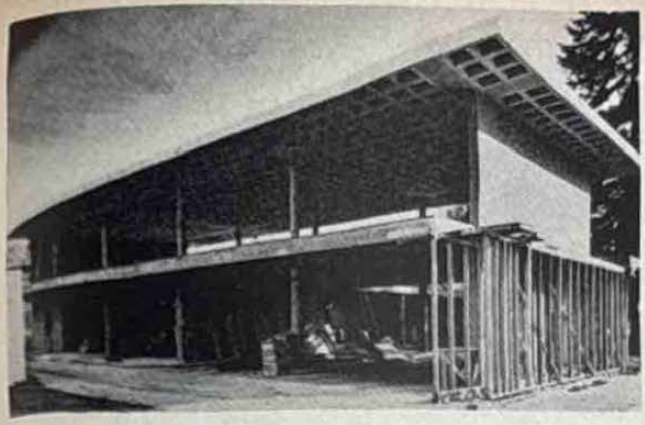
GUSKE BROS.
General Contractor

Design honestly interprets the structure

THE CLIENT insisted that its building be constructed of materials reflecting "permanency, substantiality and stability," as indicated by the final cost—$18.72 per square foot. A reinforced concrete structure was planned to express the flat slab floor and roof construction, chosen to avoid the heavy deep beams and joists which suggest an industrial character.

The building is rigidly designed to a 4-ft. module which carries through to the 16-in. waffle; to the 48-in. aluminum wall mullion spacing; to the suspended 1-in. fiberglass ceilings; and to the 48-in. grid into which recess 4-ft. troffer fluorescent fixtures. Cement-asbestos panels in the window wall conceal a maze of ductwork and piping for the heating and cooling units above the window glass. Individual offices and second floor leased quarters (to be eventually used by the owner for its new group health and life insurance department) can control their own temperatures by zoning the air conditioned package units in the space above the suspended ceilings. The second floor covered balcony, introduced 12 years ago in the architects' first project, is a common adjunct of two-story office buildings in Eugene, which has proven itself because of the moderate winters.

To meet a requirement for ample parking, the layout provides for six under-cover stalls at the front for customers and 14 at the rear for employees and tenants. A fence separates a small landscaped area from the rear parking lot; a front court takes advantage of an existing Douglas fir and creates a pleasant approach to the public entrance. The charcoal panels, exposed gray concrete and aluminum windows, flashings and railings are relieved by the red-brown brick and yellow-green doors.



WAFFLE FLAT SLAB CONSTRUCTION gives texture to soffits of roof and second floor overhangs, makes it possible for small concrete building to appear light and in scale with its occupants. Round columns help to create this effect. Reinforced brick walls carry second floor and roof slabs.

OUTLINE SPECIFICATIONS

Structure: foundation: reinforced concrete footings; frame: reinforced concrete beams, joists and columns; roof: concrete waffle flat slab; walls: reinforced brick—Hebron Brick Co.; floors: concrete waffle flat slab.

Exterior Finish: exposed red-brown brick and gray concrete.

Window Wall System: aluminum projected sash—(Lupton) Michael Flynn Mfg. Co.; 11/16-in. cement-asbestos sandwich board—(Cemesto) Celotex Corp.

Roof Surfacing: 20-year built-up asbestos gravel—Pabco Products, Inc.; extruded aluminum gravel stops—Aluminum Company of America.

Doors: steel—M. Rueter & Sons.

Floor Surfacing: rubber tile—Armstrong Cork Co.; ceramic tile—Gladding, McBean & Co.

Insulation: 1-in. impregnated wood fiber rigid—Simpson Logging Co.

Partitions: steel stud and wood fiber gypsum plaster—United States Gypsum Co.

Interior Finish: Keene's cement plaster; ceramic tile—Gladding, McBean & Co.

Ceilings: 4-ft. acoustical fiberglass board—Owens-Corning Fiberglass Corp.; aluminum T-sections.

Lighting Fixtures: 4-ft. troffer fluorescent—Smithcraft Lighting Division, A. L. Smith Iron Co.

Heating: fire tube heater—National-U. S. Radiator Corp.

Air Conditioning: package chiller—(Heat-X) Dunham-Bush Co.

Plumbing and Sanitary: water closets and lavatories—American Standard.

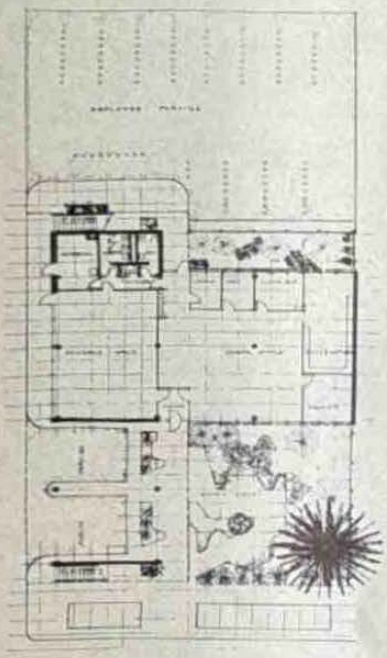
Special Equipment: aluminum flush fitting pipe rails—Aluminum Company of America; sign—Oregon Brass Works.

Total Area: enclosed: 6,483 sq. ft.; balconies, stairways and covered parking: 2,516 sq. ft.

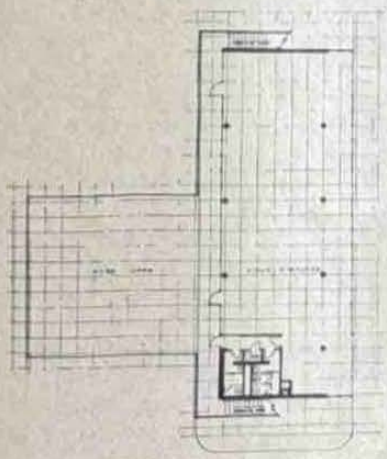
Total Cost: $137,070 (exclusive of land, landscaping, paving and fees).

Cost per Square Foot: $18.72 (using outside covered areas at one-third).

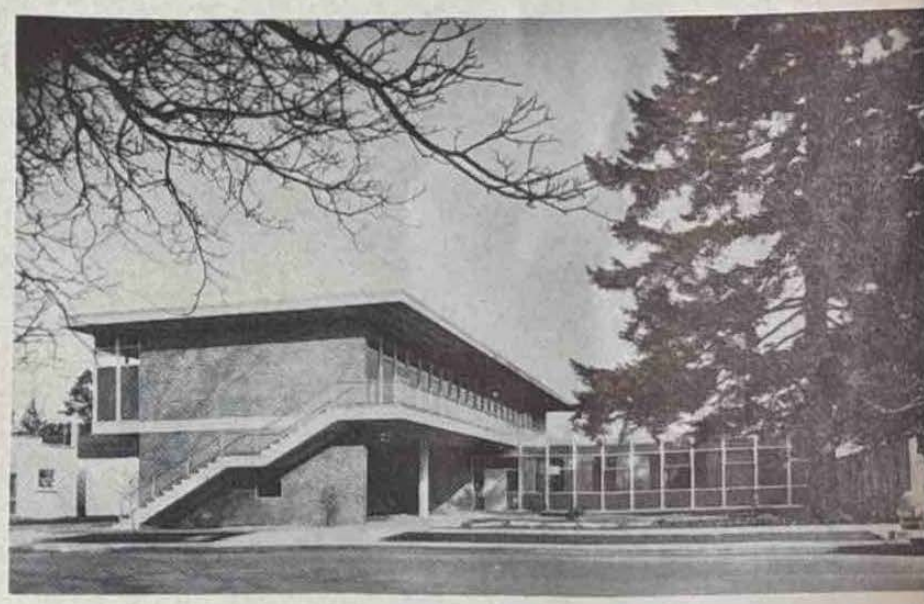
Date of Completion: March 1957.

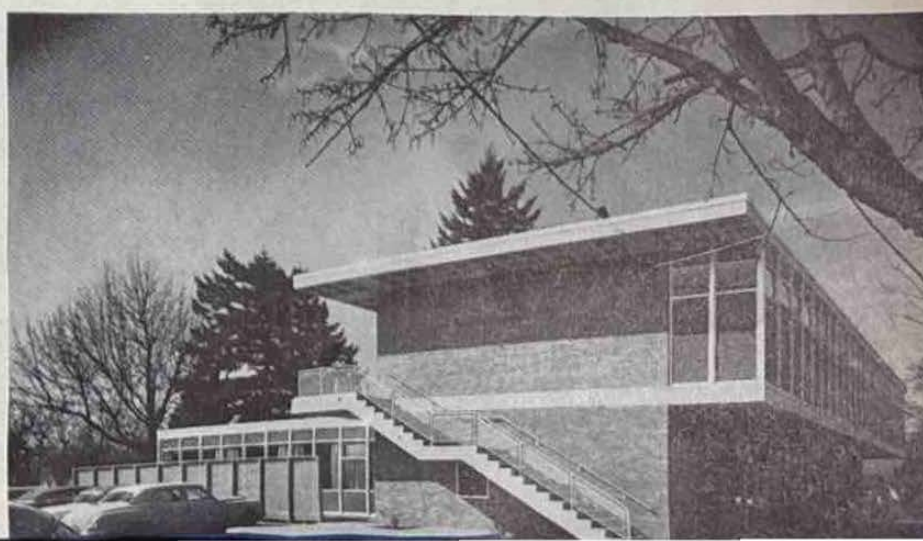


FIRST FLOOR



SECOND FLOOR





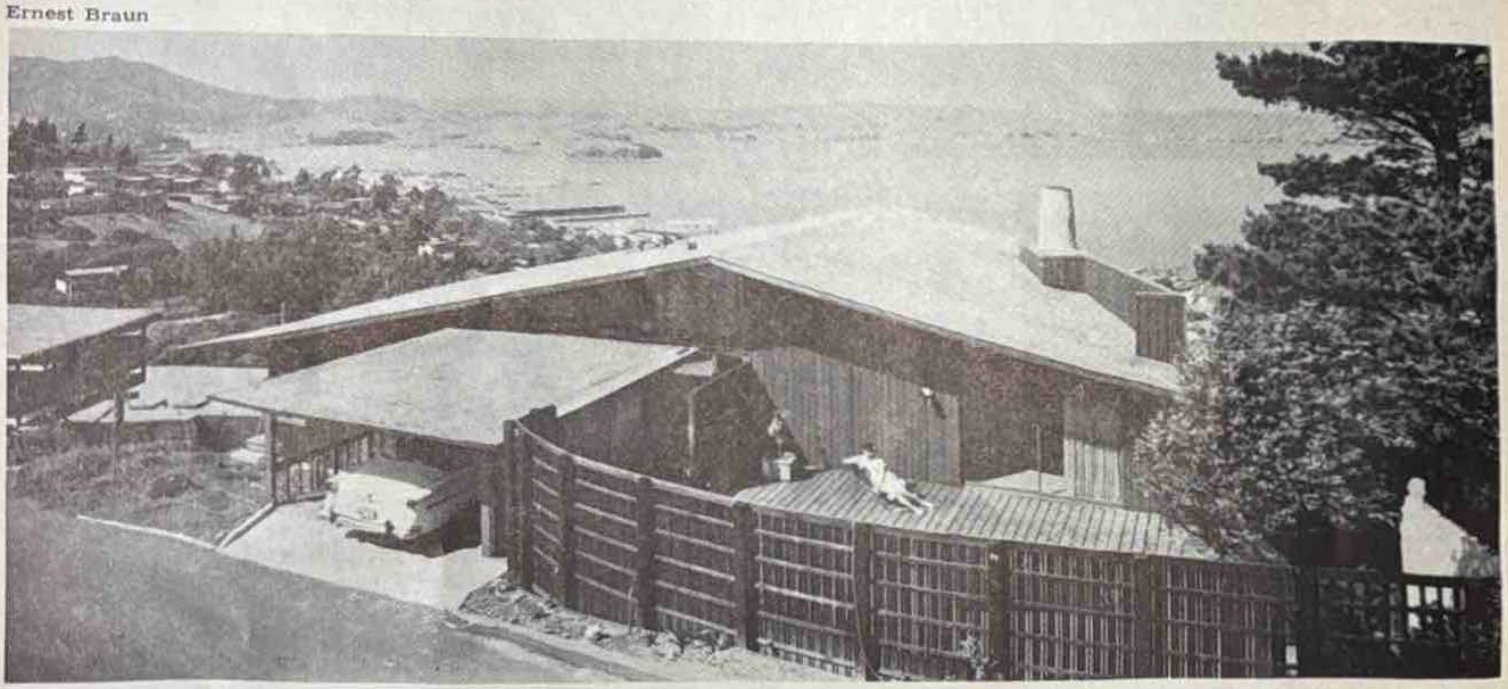
Residence, Sausalito, California

MARQUIS & STOLLER
Architects

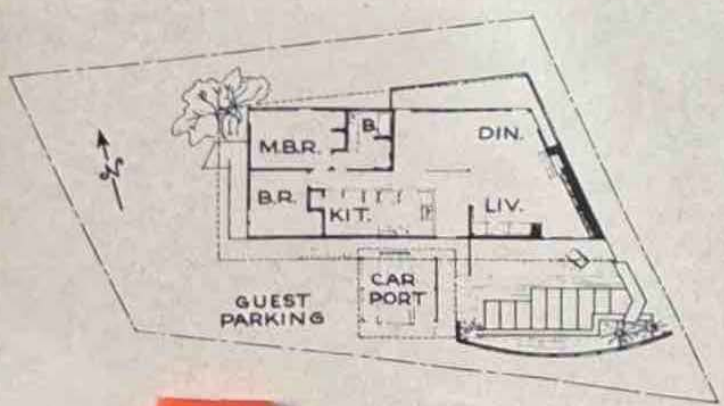
ECKBO, ROYSTON & WILLIAMS
Landscape Architects

ALEXIS TELLIS
Contractor

Ernest Braun



Orientation problem becomes an advantage



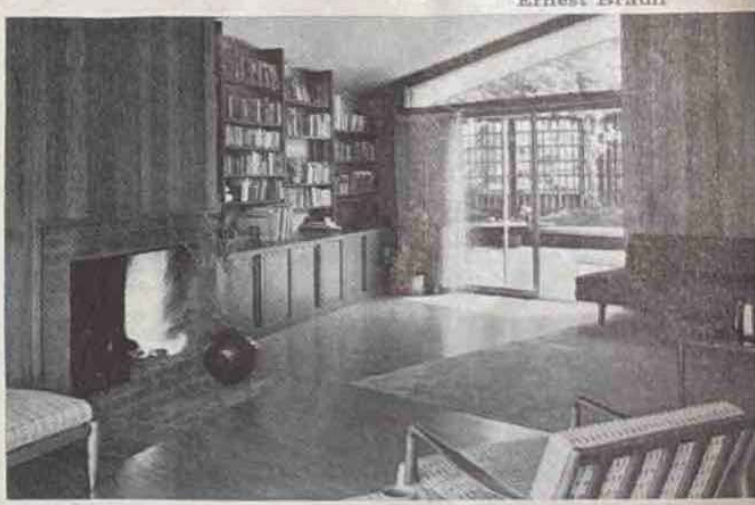
MAIN CONSIDERATION in planning this residence was to make provision for the view and outdoor sun exposure on a steep site sloping to the north and laterally to the west. The architects fitted the design to the contour of the lot, placing carport entrance, kitchen and living-dining area at the street level and allowing the bedrooms to follow the slope down a half level. A broad wood deck with concrete apron was used to span the gap between the sharp slope away from the street and the house itself. The result: a terrace where the young family of three can enjoy both the sun and the view through glass wall areas of the living room, which is finished in redwood, as is the exterior. Rest of the house, including ceilings, has ½-in. gypsum board.

M. Halberstadt

OUTLINE SPECIFICATIONS

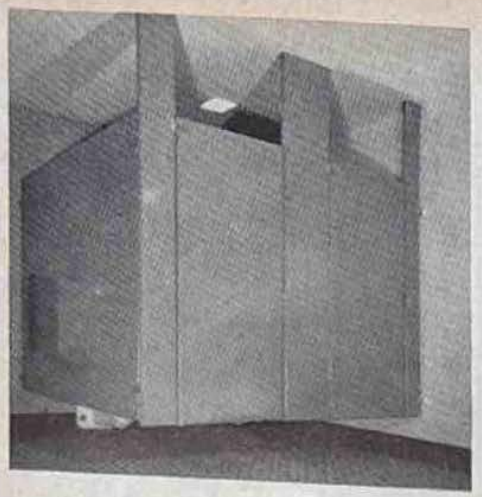
Structure: foundation; continuous concrete; frame, roof and floors; wood.
Exterior Finish: redwood and stain—Samuel Cabot, Inc.
Roof Surfacing: tar and gravel—Pabco Products, Inc.
Windows: wood sash.
Doors: sliding steel—Arcadia Metal Products; wood.
Floor Surfacing: oak hardwood; tile—Kentile, Inc.
Insulation: rock wool batts.
Interior Finish: ½-in. gypsum board—(Sheetrock) United States Gypsum Co.; redwood.
Ceilings: ½-in. gypsum board—(Sheetrock) United States Gypsum Co.
Lighting Fixtures: incandescent—Prescolite Manufacturing Co., Boyd Lighting Co.
Heating: forced air furnace—Kresky Manufacturing Co., Inc.; controls—Minneapolis-Honeywell Regulator Co.
Plumbing and Sanitary: lavatory and water closet—American Standard.
Total Area: 1,500 sq. ft.
Date of Completion: February 1957.

Ernest Braun



M. Halberstadt

ROOF LINE follows slope of lot in street level living-dining area. Lowered kitchen walls allow view and edge of roof to be seen beyond, enlarging spatial concept.



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Thin shells in the United States

by MARIO SALVADORI

FOR SOME mysterious reason I find that people in the United States are afraid of thin shells. About two years ago I gave a talk in Kansas City and afterwards threw on the screen a slide showing a shell. A gentleman got up and asked, "Would you dare to stand under one of those things?" So I responded, "Do you happen to know what is the acceleration of gravity in the United States?" He said, "Do you mean G?" and I answered "Yes." "That's 32 point something, isn't it?" "That is right. Do you happen to know how much is G in Europe?" "I don't know, but it's the same the world over, isn't it?" "You are correct, sir. And if these things stand up in Europe, there is no reason why they should fall in the United States."

I am happy to say that since then a lot of shells have been built in this country. They have stood up. In fact, I believe that the danger at the present time is that too many are going up and when I say too many, I mean too many shells that are not right. One of the tragedies in the development of new structures today is that a structure needs both architect (essentially an architect) and then an engineer. And while I presume that both architects and engineers talk English, they just don't understand each other at all. So the architect comes up and says, "I would like to define space by means of a shell." And the engineer says "Huh?" Then he adds, "Well, look, what do you really want?" This goes on and on, and there is a complete lack of understanding, so that what we get is not lovely shells, but horrors, and I am against horrors whether they are thin or thick. I would like to say that I am delighted to have in this room, for once, both architects and engineers, and that I hope that, having met, you will continue meeting, so that at long last you will develop a common dictionary and will understand each other.

Let's go back to the fundamental problem. You have a weight up here, which you want to support. Now if you are a good engineer, you will put a beam under it. Of course. How can you support something unless there is a beam under it? Now we have a load and a beam, and what do you do with it? Why you put two columns under the ends of the beams. Now we have two columns, so we put one beam here and one beam here. Then four columns and four beams until we get down to Mother Earth because, after all, we've got to get down to earth. This is the brute way to do things because as you come down, the beams get heavier and heavier; and the heavier the beam, the heavier the column, and the heavier the beam under the column. If instead, you want to do it by means of thin shells, you must completely change your outlook and perhaps become a bit Japanese. When the Japanese fight they use judo, which consists essentially of giving in. And shells are so thin that they give in. They don't fight like beams and columns do.

I would like to perform an experiment which I am sure you have seen before. I have a piece of paper which you will notice cannot even support its own weight. It's so thin that it just has no strength at all. But the moment I give it a curvature like this, you notice that not only can the sheet of paper carry itself, but I can put a load on it and the load will be carried by this very thin sheet of paper. What we do is take the material and give it strength, not by increasing the amount of material that is being used, but by giving it the proper form.

'Form-resistant'

I believe that the terminology created by my good friend Pier Lugi Nervi is quite right. He calls these structures "form-resistant—structures which are strong because of their form. As soon as you accept the concept that a structure can be strong, not because it has a lot of material, but because it is properly formed, you realize that the material with which to build these things is concrete. Concrete can be poured in an infinite variety of shapes and provided the shape is correct, you can actually have

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An address by Mr. Salvadori, professor of engineering at Columbia University, given before a joint meeting of the Structural Engineers Association and the Northern California Chapter, AIA, in San Francisco.

terrifically strong structures with a very small amount of material.

Some very lovely shapes unfortunately have no structural meaning. Quite often an architect may come to an engineer with a drawing which shows a lovely shape for a structure and the question he comes up with is, "Can I build this structure?" The tragedy is that the answer is "Yes." By now we know so much about structures, we have such materials that we can build almost anything, and the question is not, "Can I build this structure?" but rather, "Should I build this structure?" At this point I believe that the engineer, although he is obviously the servant of the architect, should fight back. He should say, "I am sorry, I will not build this structure." Of course, he has no right to say so unless the modifications he proposes are not only correct structurally, but are also beautiful—at least as beautiful as the one proposed by the architect.

Let's assume that you encounter this architect who is ready to listen. And let's assume that you encounter this engineer who is capable of saying no and telling the architect what modifications to bring to his structure. Will this team achieve the goal? The answer is "No." After all, we are not dreamers; we are builders and therefore we need contractors. We very badly need contractors because they eventually will do your job. So it is also extremely important that a certain amount of education should be given the contractor.

Now, we do have these three people: we have the architect (and I repeat, he is the boss); and we have the engineer (on a large job you are going to have both the structural and the mechanical and possibly the acoustical engineer); and we have the contractor. In my work I usually get all these people together at the very beginning of the job. What should they be trying to do? They should try to get a client in the first place and then they should try to convince the client that a shell is feasible and economical.

Economy possible

As soon as economy is mentioned, we run into trouble. Although we have built numerous shells in the United States on a competitive basis, although there are jobs on which shells are so cheap that they cannot be beaten economically, apparently many people still feel that thin shells are too costly. Why are these wrong theories going around? The reason is that there are many ways of building shells and if you build shells the usual way, sometimes you get a very costly

Continued on p. 32

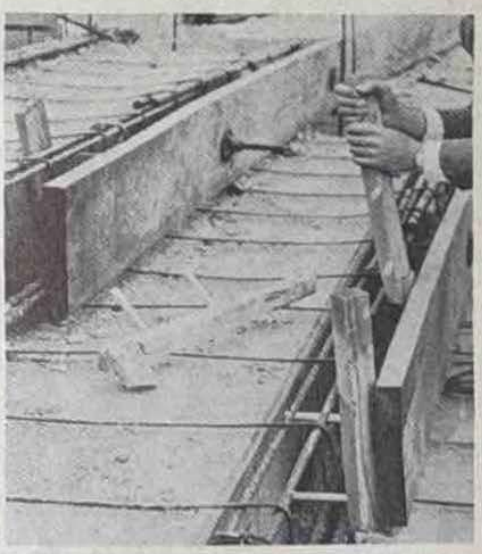
California's finest swimming pool

CONSTRUCTION PHASE of the Sea Arena at California's Marineland of the Pacific on the Palos Verdes Peninsula is now completed, but the general contractor, Paul W. Speer, Inc., encountered a good many problems along the way. The company head says that he "expected the unforeseen" when starting the $500,000 job last December. He didn't have long to wait, as unpredictable soil conditions, including massive beds of solid granite, slowed site preparations.

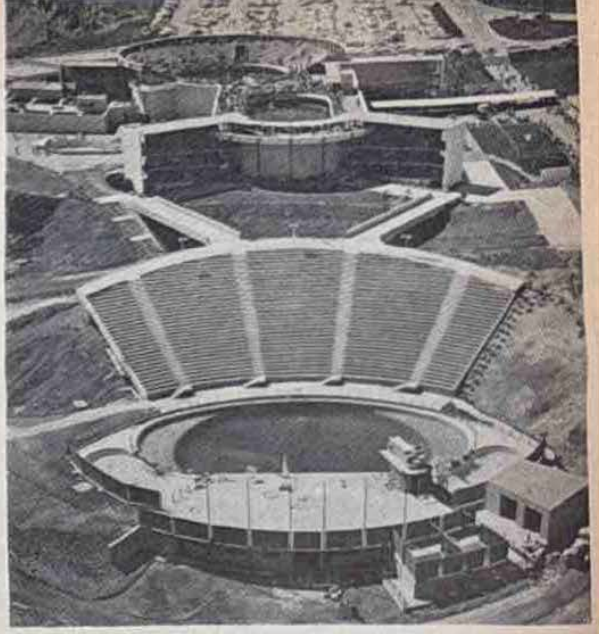
Excavation for the 3,000-seat stadium, which at times ran as high as $150 per yard, became a tortuous process and dynamite often was the only solution. The structure rests on 25 bell caissons and four shear walls which go down as much as 15 ft. to reach solid footing. Bells are 4 to 8 ft. in diameter; footings under the shear walls are 8 ft. wide.

Although serious consideration was given to using precast components for the stadium, the final decision favored pouring in place, since the pie-slice shape of the structure demanded seat rows of varying lengths plus a variety of transition contours. One factor in the success of that particular phase was a removable spreader invented by job superintendent Ken Damon.

The purpose was to maintain a constant 6-in. thickness along the poured vertical section directly underneath the bench seats. Damon took an 18-in. length of 2x2, with one corner beveled in order to reduce width and provide for easier removal following the pour.



REMOVABLE SPREADER maintains 6-in. beam width (foreground). Note how one-quarter turn permits spreader to be lifted from form.



CONCRETE STADIUM in foreground looks down on main pool, 15 ft. deep and 120 ft. across, flanked by smaller pools at each end which serve as holding tanks for aquatic "actors." Beneath open air stage, large windows inside of pool provide ideal conditions for underwater photography. Pereira & Luckman, architect-engineers, designed all Marineland structures, continue to develop master plan.

A vertical support for the exterior riser form was secured to the bottom of the spreader. Two dowels were fitted in to holes drilled about 6 in. apart, parallel to the flat beveled surface.

Inserted between form and rebar at 4-ft. intervals, the dowels butted at right angles against the inner plywood form and maintained the desired beam width. After the pour, the spreader simply was grasped at the top, given a one-quarter turn and easily withdrawn.

Besides being removable, the spreaders were reusable. And time also was saved in the extremely simple system of erecting and dismantling plywood forms, the sections being quickly dropped away by removal of one cleat.

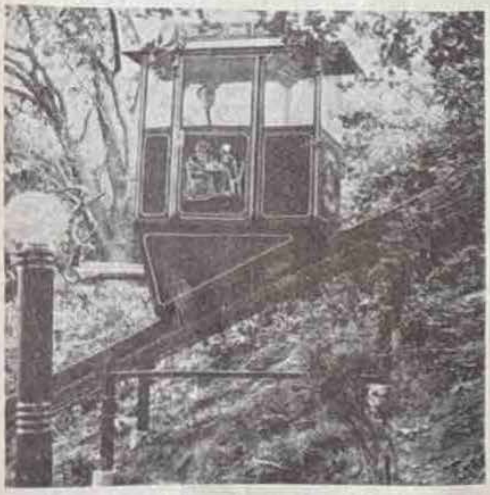
While workmen were pouring the final sections of the stadium, the main pool already was in use by porpoises darting through the water, retrieving rubber ducks and jumping through hoops. The 7-in. floor slab is poured concrete; the walls are gunite. Where the two meet, the joint is secured by a water-stop device. Thickness of the contoured wall varies according to the amount of water pressure it must contain, reaching a maximum of 10 in.

The gunited walls kept forms at a minimum and permitted concrete to be quickly wrapped around steel tubing where required. An untidy excavation left by a confusion of boulders and earth was corrected by employing a lean mix, gunite shaped fill prior to placing the pool's steel reinforcement.

PRODUCTS

hill climber

The Hil-A-Vator, which has been used by hillside residents, particularly in the Bay area, for the past 10 years, now is available in a heavier duty commercial model. (Photo shows an installation at Shadow-Brook Restaurant near Santa Cruz, Calif.) Easily adapted to fit most hillside conditions or requirements, the car is attached to a ball bearing rubber tired chassis for comfort and quietness of operation. Car wheels cannot escape the specially formed track and the controls may be key-locked to prevent unauthorized use.—Hil-A-Vator Division, Dwan & Co. **(Item No. 1)**



asphalt roof

Described as "roofing's newest material in half a century," Perma Ply glass felt combines with asphalt to provide a non-rotting, monolithic roof. Hot moppings of bitumen soak through the porous sheet of fibrous glass to make a single-layered roof which resists cracking and blisters, assures long life and low maintenance. Perma Ply, on mopping, becomes an integral part of the bitumen, which is reinforced by the glass fibers.—Owens-Corning Fiberglas Corp.

(Item No. 2)

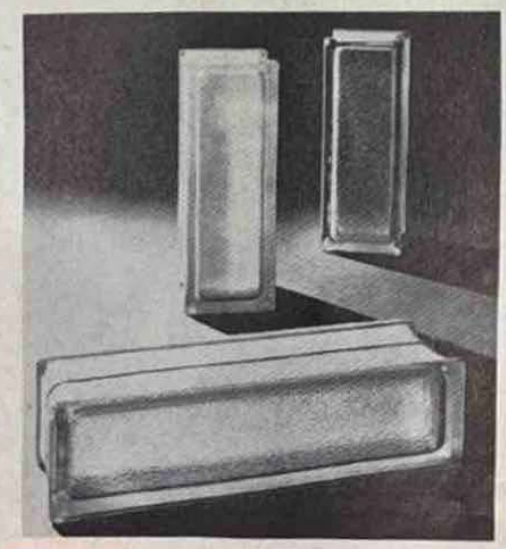
exit light

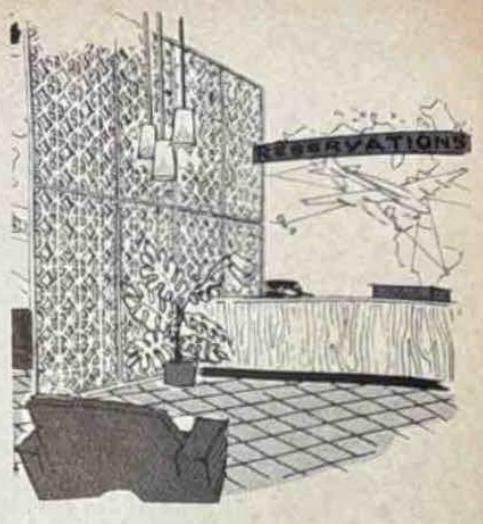
Prescolite has introduced a line of surface exit lights in which the complete housing as well as the frame is of diecast Zamac alloy, free of porosity and offering corrosion-resistant properties. Inner frame with concealed hinge simplified relamping and cleaning. Standard exit letters are 6 in. high; lens panels are of unbreakable fiberglass.—Prescolite Manufacturing Corp. **(Item No. 3)**

glass blocks

First change in the shape of glass blocks in the past two decades—a 4x12-in. model—has been introduced by Pittsburgh Corning. It has an acid-etched appearance on its inner faces and smooth outer faces. In addition to the standard block, the 4x12, as it is called, is available with a white fibrous glass screen in the center and with a blue-green Suntrol screen. The new shape may be used in combination with the company's 12-, 8- and 6-in. square blocks and is offered in the same colors: blue, green, red, yellow and orange. The 8-in. size only also can be obtained in walnut and charcoal. — Pittsburgh Corning Corp.

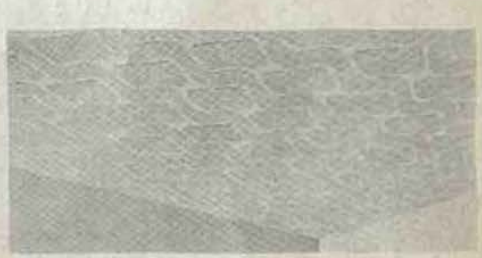
(Item No. 4)





aluminum screens, grills

Color-anodized aluminum screens and grills can be reproduced in virtually any design an architect creates or selects, in thicknesses ranging from ¼ to ¾ in. and in sizes from 2x2 to 4x12 ft. Panels can be finished in red, green, blue, gold, brass, bronze or copper; special colors are available on request. They can be installed, through use of standard window mullions, as easily as glass partitions.—Morris Kurtzon, Inc. **(Item No. 5)**



'sculptured' ceiling tile

Intended to make acoustical ceilings an integral part of the decor of restaurants, hotels, department stores and offices, a mineral wool tile with a three-dimensional finish has been introduced by National Gypsum. Three patterns (French Curve is shown here) are now available in what will become an extensive Sculptured Travacoustic series. Each design may also be combined with smooth or fissured tile for ceiling border trim.—National Gypsum Co. **(Item No. 6)**

cloak closet

Upward-sliding sectional Wardrobe-door permits design of a behind-chalkboard cloak closet wholly unobstructed for both traffic and supervision. Minimum depth of 2 ft. from chalkboard surface to back of closet is ample provision for the typical installation.—Barber-Colman Co.

(Item No. 7)

READER SERVICE

Pacific Architect and Builder
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Please send without obligation the data about the products or the literature listed on these pages.

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LITERATURE

Readers are requested to write directly to manufacturers for the following literature.

Durcon Aluminum Casement Windows (AIA 16-E): illustrates sizes for openings in frame construction (also available as fixed windows): gives installation details and specifications; 4 pp.—Durell Products, 3600 Airport Way, Seattle 4, Wash.

Publications You Can Use: listing of more than 100 issued by Western Pine Association includes grade use guides, species books, technical aids; 8 pp.—Western Pine Association, 510 Yeon Building, Portland 4, Ore.

Central Station Weathermaker: guide to selection of central station air conditioning units from two lines for conventional and multizone applications; specially developed conversion chart for using whichever method is desired provides a simple two-step operation to proper coil size; 72 pp.—Carrier Corp., Carrier Parkway, Syracuse, N.Y.

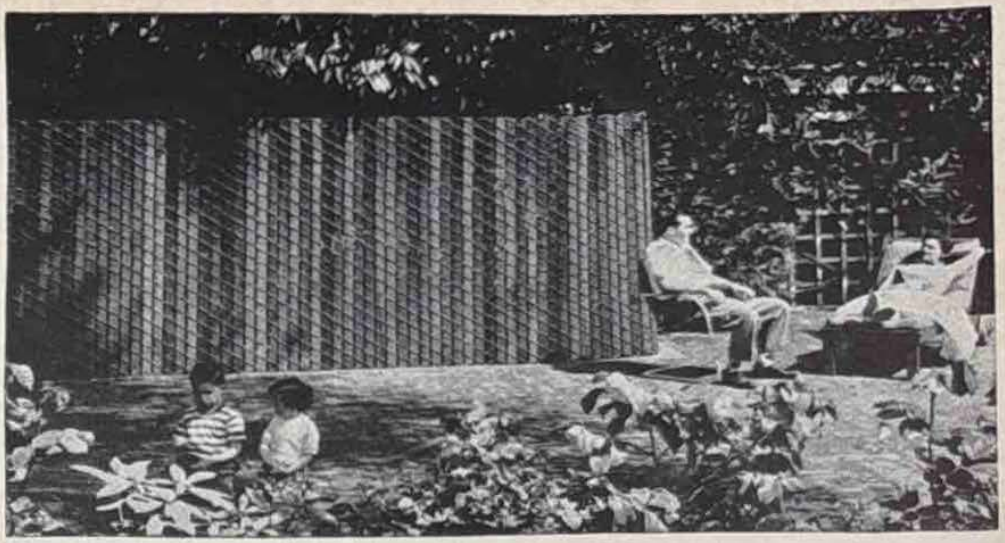
Castle Architects' Handbook (AIA 35-K-4): contains recommendations for avoiding common pitfalls at planning stage of hospital design, as well as descriptions of various types of sterilizers and their function; provides dimensional data and roughing drawings; 24 pp.—Wilmot Castle Co., 1915 E. Henrietta Road, Rochester 2, N.Y.

Aluminum/Steel Sliding Glass Doors, Windows and Window Wall (AIA 16-E): contains illustrations, standards/options and complete specifications, with all-new 102 and 104 Series sliding glass doors prominently displayed; 36 pp.—Arcadia Metal Products, 801 S. Acacia Ave., Fullerton, Calif.

Gas-Fired Unit Heaters: contains specifications on 10 new units with capacities ranging from 25,000 to 250,000 Btu. per hour input; 8 pp.—Ilg Electric Ventilating Co., 2850 N. Pulaski Road, Chicago 41, Ill.

Accent on Color: shows stool and table design, color selection and installation ideas for restaurant and institution interiors: 24 pp.—Chicago Hardware Foundry Co., North Chicago, Ill.

What Price Schools?: features pictures and data on pre-engineered steel school buildings from gymnasiums to bus garages throughout country; 8 pp.—Stran-Steel Corp., Detroit 29, Mich.



USS Cyclone Rustake

the fence designed
to complement modern architecture
to provide protection and privacy

The great majority of West Coast homeowners are interested in fencing their properties. This provides an excellent opportunity for you to include fence in the specifications of the homes you design. And an especially good fence for you to recommend is Cyclone Rustake Fence.

Rustake Fence is made by inserting slender strips of California Redwood into special wide mesh Cyclone Chain Link Fence. This fence has all the sturdy strength of steel, yet gives the appearance of redwood picket. Rustake Fence keeps out trespassers, establishes boundary lines and preserves privacy. Its attractive design and warm, glowing color make an effective background for shrubbery and blend well with the contemporary designs of Western architecture.

For more information on Cyclone Rustake Fence, send for our free booklet, "Cyclone Rustake Fencing." Then when your clients ask about suitable fencing for their property, you'll be ready with complete information on Cyclone Rustake Fence.

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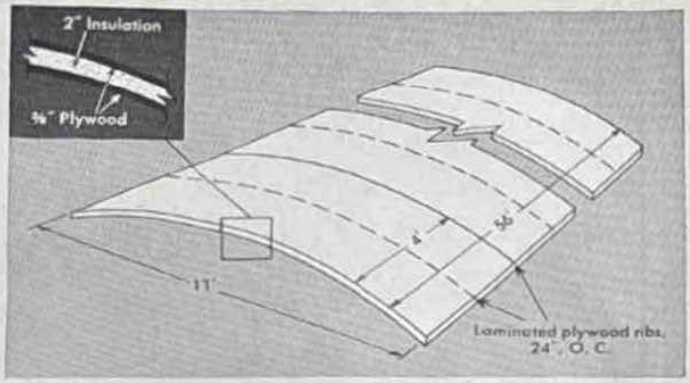
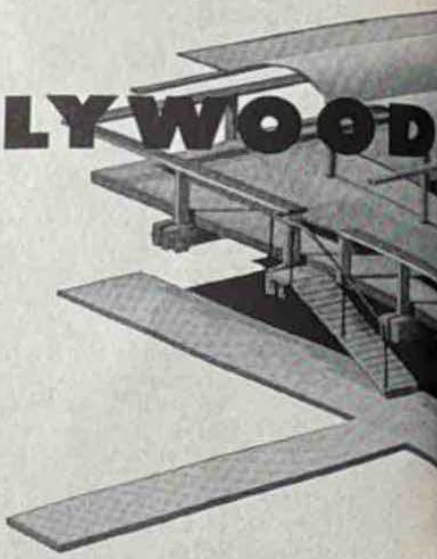
new approaches to structural design with fir plywood



Prefabricated roof vaults are 11 feet wide at the chord, and 56 feet long (40 foot span plus 8 foot cantilever both ends). Key to system is the outstanding shear strength of the stressed fir plywood skins.

FIR PLYWOOD



ARCHITECT: Theodore T. Boutmy, A. I. A.
George Kosmak, Consultant
John E. Brown, Structural Engineer

PLYWOOD VAULTS designed and engineered by Berkeley Plywood Co., Oakland

THESE lightweight fir plywood stressed skin barrel vaults designed for a California yacht club provide large clear floor areas at low cost plus an attractive profile and interior.

Combining roof decking, insulation and ceiling, the prefabricated vaults span 40 feet from front to rear and 11 feet from valley to valley, without use of beams or trusses. Vaults are cantilevered 8 feet front and rear; spouts which join units at the spring lines extend an additional 10 feet to act as gargoyles in carrying off water.

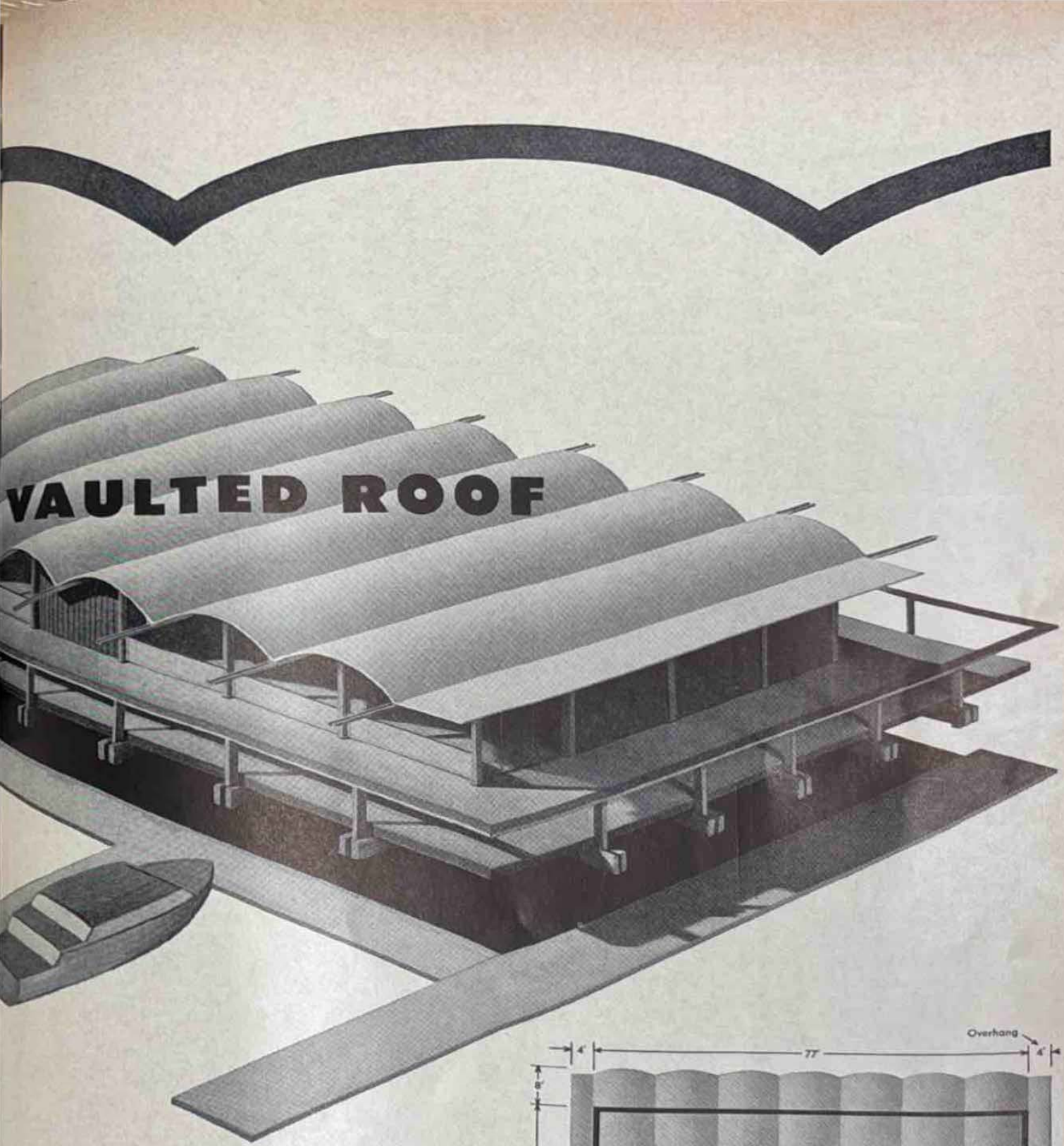
The roof system provides complete freedom in interior arrangements. Additions can be made simply by adding new vaults or extending the existing ones.

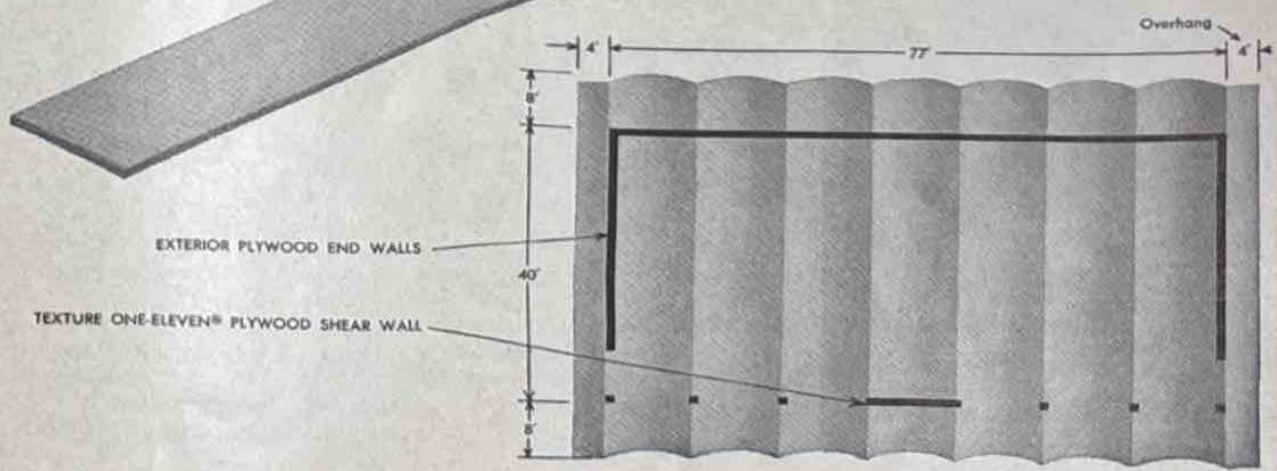
Structurally, the entire roof acts as a rigid plywood diaphragm in transferring lateral loads to the plywood end and shear walls. Two test vaults were successfully used at the San Francisco Arts Festival. Berkeley Plywood is contemplating mass producing the vaults as a standard construction component.

SEND FOR YOUR COPY OF "SCHOOLS OF THE FUTURE"

. . . a portfolio collection of outstanding designs by six leading architectural firms. Includes 10-page booklet on fir plywood diaphragm construction. For your free copy, write (USA only) Douglas Fir Plywood Association, Tacoma, Washington.
Also write for information about DFPA design and engineering consultation services.

VAULTED ROOF





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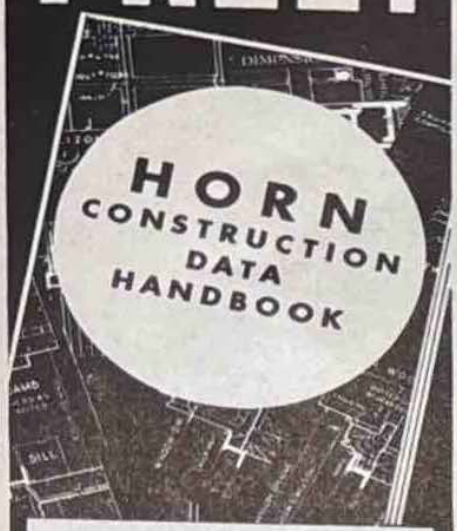

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BOOKS

Architects' Year Book 8. Edited by Trevor Dannatt. Philisophical Library, 15 E. 40th St., New York 16, N.Y., 1957. 223 pp. $10.

The title of this work may be somewhat misleading for, unlike customary annual publications, this one is not concerned with the presentation of statistics, lists of names or summaries of achievements in its field. Rather it contains 17 articles of original thought and of critical outlook stimulating to both the practicing architect and to those who, less professionally involved, have an interest in the development of modern architecture and those subjects that affect or are affected by it. A few of the subject headings: "Style in Architecture," "Notes on a Domestic Style," "Alvar Aalto," "Design and the Creative Process," "Precast Concrete."

Student Annual. Edited by John Cremona. American Institute of Architects, 1735 New York Ave. N.W., Washington 6, D.C., 1958. 102 pp. $3 ($2 for students and libraries).

A collection of illustrations and photographs of work in more than 50 schools of architecture in the U.S., selected by the students themselves. "Our school projects today," says the editor, of the University of Syracuse, "should give a good indication of our buildings, our art and our cities to come."

The Weather Conditioned House. By Groff Conklin. Reinhold Publishing Corp., 430 Park Ave., New York 22, N.Y., 1958. 320 pp. $16.50.

Anyone exclusively interested in "the house" and nothing but "the house" should read this book. An analysis of the thermal environment, humidity, winds, sun, sound, odors and the deteriorating influence of moisture, pests and fire on the materials which make up the house is thoroughly delineated and simplified for the specific use of architects, builders and intelligent home buyers.

Design of Concrete Structures. By Leonard Church Urquhart, Charles Edward O'Rourke and George Winter. McGraw-Hill Book Co., Inc., 330 W. 42nd St., New York 36, N.Y., 546 pp. $8.

This sixth edition gives a sufficient development of the theory of concrete design to insure the beginner a thorough understanding of the fundamentals. The authors cover the entire field of customary reinforced concrete design with the exception of some highly specialized structures. Complete designs of some of the more common structures are given and emphasis is placed on a thorough discussion of basic structural performance, fundamental mechanics and physical explanation. The work reflects all the changes introduced in the revision of the American Concrete Institute's building code which was issued in 1956.

Building Construction Handbook. Edited by Frederick S. Merritt. McGraw-Hill, 327 W. 41st St., New York 36, N.Y., 1958. 906 pp. $15.

Composed of 29 sections written by 25 architects, engineers and contractors, the handbook presents the latest developments in design theory and construction practices. Each topic is developed in detail so as to be useful to the student and the non-specialist as well as the specialist.

Reinforced Concrete in Architecture. By Aly Ahmed Raafat. Reinhold Publishing Corp., 430 Park Ave., New York 22, N.Y., 1958. 240 pp. $15.

In dealing with the architecture of this versatile material, the author, a Fulbright scholar from Egypt who won his doctorate at Columbia University, discusses three components: structure, planning and aesthetics. Here is shown the cycle of growth from where it started a century ago, which paths were taken and where recent developments are leading. For the first time a thorough analysis of the importance of reinforced concrete as a main building material in all corners of the world is complete.

Distionary of European Art. By Emerich Schaffran. Philosophical Library, 15 E. 40th St., New York 16, N.Y., 1958. 283 pp. $4.75.

A handbook for all who wish to study or add to their enjoyment of the artistic landmarks of Western culture, this volume incorporates the significant figures, terms, movements and masterpieces in the fine arts. A comprehensive introduction traces the evolution of art forms and the rise and fall of art styles, from Greek classicism to modern expressionism, cubism and surrealism.

The Moderns and Their World. Introduction by Sir John Rothenstein. Philosophical Library, Inc., 15 E. 40th St., New York 16, N.Y., 1958. 128 pp. $12.

Half of the 96 full-page reproductions of works of 20th century artists are in fine color. About 50 painters are represented—some by several pictures—from the beginnings with Cezanne through Picasso, Matisse, Dali, Rivera and others, along with brief biographies of each, a note on each work and a bibliography. In his introduction, the director of the Tate Gallery analyzes the cultural and environmental influences that played upon the development of the individual artists and the shaping of the schools and styles.

T-SQUARE TALK

new offices

Lorand West has opened an office for the practice of architecture at 7233 Beverly Blvd., Los Angeles.

firm changes

John Rushmore and Jack Woodman have dissolved their architectural partnership in Bellevue, Wash. Rushmore continues to practice in the J. S. Ditty Building under the firm name of John Rushmore & Associates; Woodman is now consulting architect with Interlake Properties, Inc., Bellevue commercial developers.

new partners

Donald R. Ericson, who has been with Culler, Gale, Martell & Norrie, architects-engineers of Spokane, since 1955, has been named a junior partner, filling the position of design coordinator.

deaths

Albert R. Walker, 77, architect-engineer, who participated in the design of more than 350 buildings in the Los Angeles area and was instrumental in the westward development along Wilshire Boulevard, died September 17 after a prolonged illness. His last major work before retiring in 1954 was the St. Sophia Greek Orthodox Cathedral. He was a senior partner in the firms of Walker & Vawter (1910-17), Walker & Eisen (1918-41) and Walker, Kalionzes & Klingerman (1941-54).

elections

Idaho Chapter, AIA, has elected these officers: Ed Jones, Boise, president; Clinton Sundberg, Idaho Falls, vice president; Rodney Grider, Boise, secretary-treasurer; and Curtis Finch, Boise, to the executive board.

Portland planning director Lloyd Keefe has been named president of the Pacific Northwest Chapter, American Institute of Planners.

AIA MAY MEET IN WEST

San Francisco may possibly replace Denver as the site for the national AIA convention in 1960. Director Ulysses Floyd Rible of the California-Nevada-Hawaii Region reports that the Denverites have requested a postponement because of delay in construction of a new hotel.

appointments

Architects Philip Daniel of Los Angeles and Corwin Booth and John S. Bolles of San Francisco have been appointed to make a survey of the functioning of California's State Division of Architecture, working with the management consultant firm of Ernst & Ernst.

Robert A. Williamson has been promoted to chief structural engineer and Harold Soliday to chief electrical engineer by Holmes & Narver, Inc., Los Angeles engineers-constructors.

Architect Winston Cordes is serving as chairman of the construction industry division of the Community Chest for the Los Angeles area.

Floyd A. Cosmi has been named manager of the San Francisco architectural office of John S. Bolles.

travelers

Beverly Hills architect Victor Gruen left last month on a six-week trip to Europe where he will visit Germany, France, Italy and Austria and will address several professional groups on shopping centers and planning in his native Vienna.

FOUR DISTINCTIVE HAWS FOUNTAINS
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MANUFACTURERS/SUPPLIERS

• **Architectural Plastics Corp.** has named a director of architectural services for its new San Francisco office at 260 Kearny St., Clayton Lewis, who for the past four years has worked in the Bay area as a designer for several architectural offices and for himself.

• **Cascade Pumice Corp.** lost its president when Lloyd A. Williamson died July 29 at the age of 61. A native of Muncie, Ind., he came to the Northwest 16 years ago and founded the company which bore his name and preceded the present firm. He served as first vice president of the National Pumice Institute in 1955.

• **Fabricon Products** of Los Angeles has appointed William B. Clayton Jr. as vice president in charge of West Coast operations; and James Pendry as sales manager of the laminated products division.

• **Olympic Stained Products Co.** of Seattle has appointed George C. Oistad as sales promotion manager.

• **United States Plywood Corp.** has elected a new president, Gene C. Brewer of Redding, Calif., in charge of the firm's West Coast operations since 1954. He succeeds S. W. Antoville who has become chairman of the board. Brewer joined the company in 1937 in Seattle, was transferred to South Carolina and returned to the West in 1949 to serve as plywood plant manager and a year later as president of Shasta Plywood, Inc., a U. S. Plywood subsidiary. During his time with the company on the West Coast, its operations have grown from the original Seattle plant to a complex which includes six plywood plants, eight sawmills and remanufacturing facilities, two green veneer plants, one box factory and a plant which produces Novoply.

BREWER

• **Fluorescent Fixtures of California** has appointed Kenneth R. Taylor as sales engineer servicing the Northwest territory.

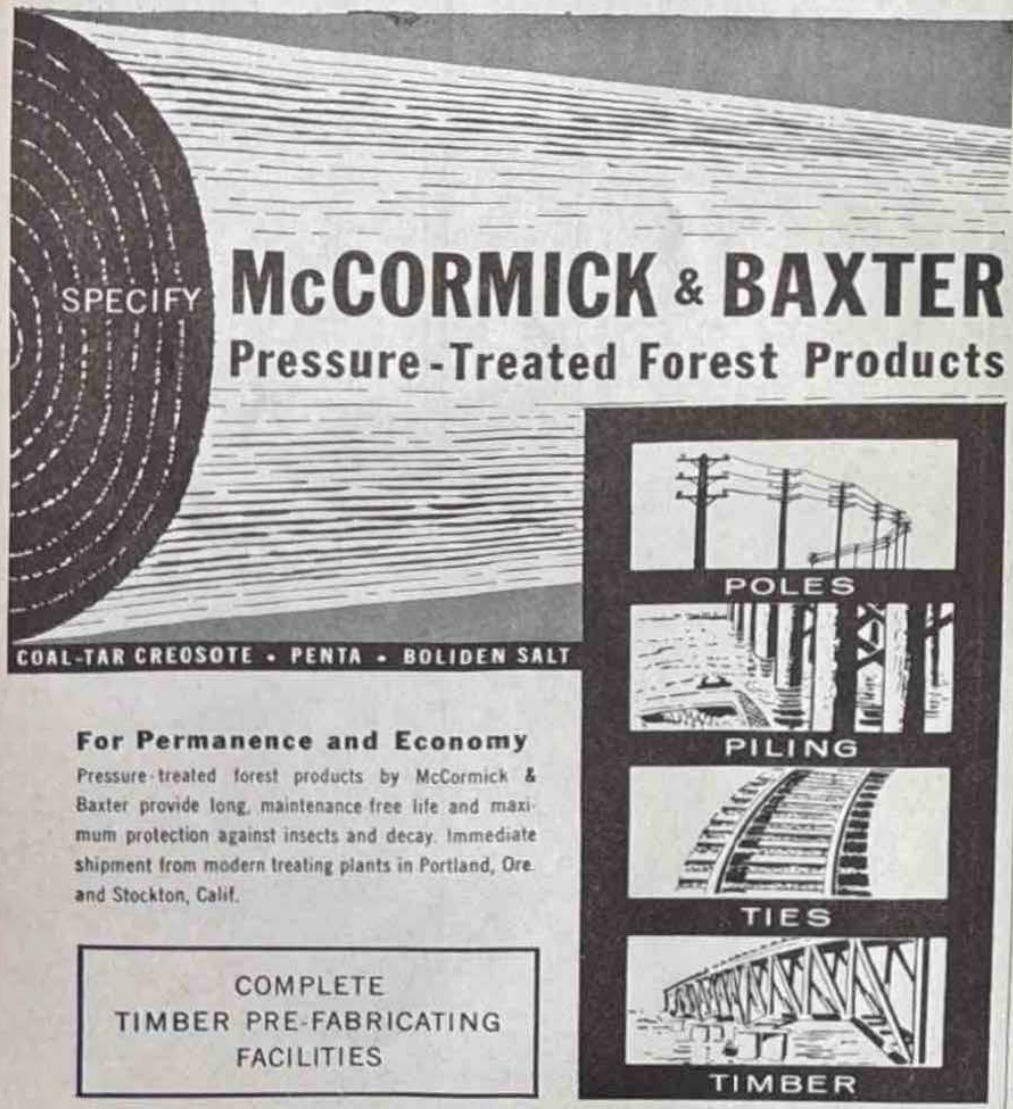
• **Harvey Aluminum** has started production at its aluminum reduction facility at The Dalles, Ore.

• **Silvray Lighting, Inc.,** has appointed Matt Cabot of Honolulu to service the Territory of Hawaii.

• **Michael Flynn Manufacturing Co.** has purchased the extrusion equipment of Western Extrusion Co. located in Gardena, Calif., as part of a long-range program to produce aluminum extrusions, windows and curtain wall on the West Coast.

• **Fibreboard Paper Products Corp.** of San Francisco has created a new service organization known as the technical services department, with William A. Wiedersheim, graduate architect and the company's market analysis manager, in charge. Five technical service representatives have been appointed: Edgar F. Carney, southern California; Robert Conant, Northwest; Henry M. Ferree, central California; Allan Paterson, Los Angeles; David H. Williams, Intermountain.

• **Graystone, Inc.,** held a recent open house at its new prestressed concrete plant in Redmond, Wash., which included a briefing on latest developments in the field by Harold Price, San Francisco representative for Freys-



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sinet Co. Graystone holds the Freyssinet affiliation for engineering and design consultation in Washington.

• **Clad-Rex Corp.** has a new Portland representative for its vinyl metal panels: Johnson Acoustical & Supply Co.

• **Construction Fabricators, Inc.,** has opened for business at 9442 S.W. Barbur Blvd., Portland, with Bob Propst and Terry White as principals, specializing in heavy timber frame buildings.

• **Soule' Steel Co.** will erect a new several-million dollar steel rolling mill in Los Angeles.

• **Evans Products Co.** will expand and relocate its wood products research and development laboratories from Coos Bay, Ore., to Corvallis and has promoted two western division executives: Dr. Piotr Zenczak, director of wood research laboratories, now also in charge of production of hardboard and battery separators in Corvallis; and Arthur VanderSys, up to now hardboard plant manager, with new duties as director of sales promotion.

• **Pomona Tile Manufacturing Co.** of Los Angeles has appointed Richard G. McGandy as director of public relations and advertising.

• **The Stanley Works** has a new western corporate office and warehouse in Los Angeles, with Harvey A. Clark as manager.

• **Permanente Cement Co.** has completed a $500,000 cement grinding facility at its northern California plant that will permit increased production of finished cement during the peak construction season.

• **National Electric Products Corp.** has appointed a veteran sales executive, Norman L. Bost of Seattle, to the newly created post of assistant vice president.

• **Peerless Heater Co.** has appointed Hardesty-Favero & Co. of Seattle to represent its line in Washington, Oregon and Idaho.

• **Payne Co.** of La Puente, Calif., has appointed Don Driver as a sales engineering representative in southern California.

• **Rilco Laminated Products** has named Albert M. Stringer of Great Falls, Mont., as representative for the entire state and northern Wyoming.

• **Bethlehem Pacific Coast Steel Corp.** has appointed H. A. Schirmer as manager of fabricated steel construction sales. He has been succeeded in his former post as contracting manager for the San Francisco district by B. B. Dunwoody.

• **Chelsa Fan and Blower Co.** has appointed John A. Scott Co. of Los Angeles as its southern California representative.

• **Consolidated General Products, Inc.,** has named O. O. Taylor & Son, consulting engineering firm of San Francisco, to handle its line of roof ventilators and fans throughout northern California and the Reno, Nev., area.

• **Chase Brass & Copper Co.** has instituted an advisory service to builders and plumbing contractors to assist them in determining the best techniques for installing copper tube plumbing and drainage systems. It is available on the West Coast through offices in Los Angeles, San Francisco and Seattle.

• **Klemp Metal Grating Corp.** has opened a manufacturing plant at 538 Eastshore Highway, Albany, Calif.

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Handy & Harman, *El Monte*
K & K Body Works, *Los Angeles*
McDowell & Craig, *Norwalk*
Nardon Manufacturing Co., *Alhambra*
Pacific-Southern Foundries, Inc., *Bakersfield*
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structure. Some of you might know, for example, that the forms for the shells that were built at MIT were extremely costly. No one has ever said how much, but I think that they cost around $3 or $4 a square foot, and one of my students once remarked that he didn't see the point of building a lovely wooden structure to pour a concrete structure on it and destroy the former. And he was right.

I have been very lucky inasmuch as I have had experience in building shells in Europe, in South and Central America and in the United States, and I must say frankly that unless you visualize the job from the economical viewpoint and unless you are very inventive and very creative so as to beat this problem, then you should not be designing and building shells.

Now for a few details. One of the first things to be noted is this: the stress analysis of a thin shell at the elementary level is extremely simple. Thin shells have this beautiful property: that whatever their shape and whatever their load, they are internally statically determinate. So you don't have to solve for any statically indeterminate quantities; you don't have to solve numerous simultaneous equations. Three equations of equilibrium will solve for the three unknowns in the problem. Now I emphasize that this is true only at the elementary level. It is perfectly true that this state of stress exists in the largest part of the shell, if the shell is properly designed and properly supported. But even if you have a proper design and a proper support, there are certain regions of the shell in which the state of stress is extremely complicated.

For example, take a barrel shell. It has a state of stress which, if analyzed correctly, requires a solution of a differential equation of the eighth order. A differential equation is a nasty beast and the higher the order, the nastier the beast, so this is a fairly nasty one we have to fight with. But mathematicians (who are kind of mad and like to fight this kind of beast) fought this one. They now have it corraled and it is available to you without any danger. So you can build barrels, but you must remember that behind the stress analysis of a simple barrel there is a tremendous amount of mathematics. You must not forget that these structures are in essence the fruit of our modern technological culture, that they are the result of some of the purest mathematics applied to problems that are of interest to those who love beauty and those who love sound structures.

Non-forumla curves

Now suppose you had done the stress analysis of such shells either by use of such formulas as are available to you or by actually solving the problem. Most of the time we have to solve each problem anew because there are very few shells that look like other shells, so that a lot of creative mathematics has to be worked out if you really want to know what goes on. Suppose you as an engineer had done that. How would you answer the architect who came to you with a barrel shell which, instead of having a circular cross-section or an eliptical cross-section, had a cross-section which he just drew? He just lays a drawing on your table and says, "I would like to build it this way." Well, now I must fight my colleagues in engineering because very often when an architect comes up with a curve which does not have an accepted formula (it's not a circle, it's not an ellipse, it's not a parabola), the engineer says, "I'm sorry, I cannot do it." Now that is wrong because as soon as you acquire a thorough

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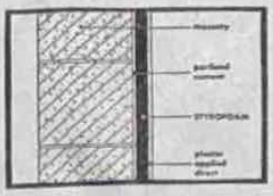

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knowledge of the behavior of shells, then they become alive to you, and you ought to be able to take care of curves which do not respond to any simple mathematical formula. So I will remind the architect to come up with sound shapes, but not necessarily mathematical shapes, and I would like to ask the engineer to be ready to solve problems even if the curves involved do not appear in any elementary book on geometry.

The moment you have analyzed the problem by hook or crook (and I may say that to this day many of the shells you see are analyzed by crook), you are now ready to present your drawing to the contractor who is going to build the structure. This is where one of the most difficult problems comes up and that is the problem of forms. In countries where labor is rather inexpensive, like Italy and Central America, you can afford to build some very complicated forms. But if you are to do the job here, can you lick the problem of forms? The answer is "Yes." There are a variety of ways of solving this problem. The first is, of course, to have a structure in which the same shape appears over and over again so that either you have a form that moves (which can be put up, lowered, shifted, etc.); or you can have the same form used on the ground (you can build the shells one on top of the other so that the first serves as a form for the second, the second for the third, etc.); or you can even go one step further and build your shells on the ground on a single form and then lift them up. The other idea which I think has not been explored too much is the use of cables and prefabricated elements that you lay on the cables.

I presume that prefabrication is one of the key words in the United States behind the use of shells. You well know that Pier Lugi Nervi has brought prefabrication to a very fine point of perfection. It is true that he has a very special material with which he prefabricates and although Ferro Cemento is an ideal material, I do not believe that you can use it in the form in which Nervi uses it in Italy, simply because the workers actually pour the concrete with a spoon. This, of course, would be impossible for us and much too costly.

If the form problem is licked by any of the methods I have mentioned, there is no question but that the economy aspect of shells can be completely ignored and you can proceed to the other problems that appear in the study of shells.

What are the other problems? I would like to talk first about some of the very practical ones. Until about a year ago, for example, the problem of weatherproofing a roof was almost an insurmountable one in the United States. To put up a built-up roof on top of the shell is quite a problem. Moreover, a built-up roof does cost money. I don't know what one costs in California, but certainly it is on the order of 50 or even 60c a square foot. Since we are aiming at shells that cost altogether $1.50 a square foot, we can't afford to spend 50c on weatherproofing. I am glad to say that at long last we have the answer. There are at least two products that are available. One is an acrylic paint and one is a neoprenic paint to spray. I have experimented with both and they both work very well. We can now weatherproof large shells or small shells for as little as 5c a square foot for one layer. We recommend three layers, so that 15c will do the job. At most, in 10 or 15 years we may have to spray one additional layer, which may be considered as just normal maintenance on the job.

The next thing is what do we do about shrinkage? We do just what we do about any other concrete structure. First we pour the kind of concrete that is right, we cure it the right way and we are bound to get no problems in shrinkage—in fact, we're going to

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have less problems than if we had a flat slab. The problems of shrinkage and the problems of temperature stresses (which, by the way, are theoretically very complicated) depend very essentially on how you support the shell.

Perhaps here I should say that we usually think of a structure being a shell because of its form. It is true that the form has a lot to do with the stress pattern in the shell, but the latter depends also very essentially on how you support the shell. For example, if you have a barrel and the barrel is cylindrical and is supported all along the edges, this is not a shell; it's just a series of arches. You get exactly the same behavior that you would get in regular arch. The moment instead that you hang your shell from some very heavy stiffeners—rigid stiffeners—at the ends, then you get the behavior that we call shell behavior. To indicate to you the difference between the two behaviors, may I just say this. If you have the barrels supported along the edges and you load the shell by means of any vertical load, you know that the thrust will push the edges of the shell out. If the shell behaves like an arch, that is what happens. But if you do hang the shell from two very stiff elements (diaphragms or arches), you may be amazed to find that your edges not only do not go out, but they move inward.

'Democratic institution'

Once the difficult mathematical problems have been solved and the shell is up, can we be sure that it will behave exactly as we expect it to? The answer is "No." I am not sure at all that the shells I have built will resist the loads the way I say they do, but there is a very wonderful factor in shells which makes me sleep without any fears. And it is this. Suppose you had a beam and suppose it were just simply supported. You have a load on it—a uniform load. Well, you all know that the maximum moment occurs in the middle; therefore, that the stresses are highest at the middle. And if the beam is underdesigned, at first it will try to stand up as best it can, but eventually after the beam has become plastic, it will collapse. And there is nothing that the adjoining section of the beam can do. Now suppose that I had underdesigned a shell. And suppose that one section, one portion, of my shell has stresses that are too high. Well, you see, a shell is a very democratic institution. If a certain part is overworked, the other parts pitch in and help. There is what we call a redistribution of stresses which can only occur because you have a distributional stress in a two-dimensional body rather than in a one-dimensional body. Hence it is very, very seldom that, even if you overload a shell in a certain region, it will collapse.

Three examples

I would like to mention to you three outstanding examples. One is very well known and if you have met that wonderful engineer and good friend Torroja of Madrid, Spain, you know that he was one of the pioneers in thin shells and designed the beautiful jai alai court in Madrid. During the Civil War this thin shell was pierced by a bomb which put a hole in it about 45 ft. in diameter. (The shell was about 120 ft. long and about 60 ft. wide). Apparently the stresses just went around the hole and the shell stayed up without much trouble until further bombs brought it down.

Another that I think is quite lovely is an example of a shell built in Germany that was supported by four columns. During the war it was hit by a gun shell which cut off one leg. This shell, which was designed to stand on four legs, stood on three and didn't mind at all.

There is a third example that I would like to mention to you, particularly those of you who are interested in foundations. You all know that if any part of the foundation sinks in an inch further than another, there is going to be trouble ahead. In most structures that is true. But a French engineer not long ago built a shell about 30x30 ft. and then put a jack under one of the four colunms that supports the shell. For three weeks he had the jack go 1 ft. up and 1 ft. down, 1 ft. up and 1 ft. down and nothing happened! In other words, shells are very insensitive to displacement of the foundations, they are very insensitive to overloads in local regions and therefore have a factor of safety which is incomparably higher than the actual factor of safety of a frame structure. So not only do I think they are easier to design, if they belong to a standard type, but they are safer and they are more economical than most other structures you can compare them with.

Every school of architecture in the country is clamoring for a short cut to the understanding and solution of shells, but there is no such thing. In my opinion, every decent job is obtained by blood, sweat and tears. If you are willing to give them, you will get good shells.

An illustrated article on thin shell construction in southern California prepared by an architect will appear in a later issue of PA&B.

Construction News Bulletin

(A weekly summary of Pacific Construction Daily)

Vol. 64—No. 22 (PA&B) News Section of Pacific Architect and Builder October 18, 1958

Dorothy McCormick ..... News Editor Win Romtvedt ..... Portland Correspondent
Rita Boshell, Dorene Davis, Linda Brady, News Staff
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BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

●HOSPITAL ADDITION— Burns, Ore.

Bids will be opened for the second time 2 p.m., October 31, by Harney County Commissioners, Courthouse, Burns, for construction of a wood frame addition, and alterations to Harney County Hospital in Burns. Plans with county clerk, $10 deposit. Plans by Roald, Schmeer & Harrington, architects, 1104 Portland Trust Bldg., Portland.

The one proposal submitted by Mann Construction Co., City Limits, Redmond, at the October 8 bid opening, was rejected due to lack of competitive bidding.

Addition will provide larger doctors' quarters, increase size of laboratory and cover the existing ambulance entrance. Concrete slab floor on grade; frame walls with brick veneer; built-up roof, plaster interior finish; asphalt tile flooring; incandescent lighting; radiant heating.

DM 10-14. Previous report 10-7

HOSPITAL— Canyonville, Ore.

Funds in amount of $170,600 have been alloted by the federal Hill-Burton Act to the Blue Mountain Hospital District, to aid in construction of a 30-bed hospital in Canyonville vicinity. The board is considering sites in the John Day and Canyonville district. Grant county voters have already approved $400,000 for the proposed hospital. April 1 is the deadline for awarding construction contracts or the federal funds will be allocated to other hospital projects. Plans are being prepared by Charles Johnston, architect, 13 N. 8th, Payette, Idaho. DC 10-11

●■TELEPHONE BUILDING ADDITION— Corvallis, Ore.

Bids will be opened 2 p.m., October 21, by Pacific Telephone & Telegraph Co., Charles Twelves, chief engineer, 509 S.W. Oak St., Portland, for construction of a 34'x75', one-story reinforced concrete addition to the company's central office building at 401 Jackson St., Corvallis. Plans by Stanton, Boles, Maguire & Church, architects, 208 S.W. Stark St., Portland.

Planholders: Wood, Johnson & Rose, Inc., Box 127; Robert C. Wilson, 2301 N. Highway 99-W; Quentin Greenough, Box 868. Of Corvallis: Albert Vik & Son, 160 Madison St.; Waldo S. Hardie & Son, 858 Pearl St.; Industrial Building Co., Box 869. Of Eugene: John Carrick & Son, 3531 S. Pacific Blvd., Albany.

The building will be located directly behind the company's present central office building, and will provide space for local and long distance switching equipment. Completion is scheduled for middle of 1959.

WB 10-10

★STORAGE BUILDING— Enterprise, Ore.

Award to Bill Dunn & Co., Enterprise, $3,686, by City Council, City Hall, Enterprise, for construction of a storage building to be located near the city sewage disposal plant.

MH 10-11

★ROOFING— Klamath Falls, Ore.

Award to C. Fitzgerald Roofing Co., 247 Hillside, Klamath Falls, $2,961, by State Department of Finance & Administration, 1225 Ferry, Salem, for construction of new roof and repairing roofs on medical storage building at Oregon Technical Institute, Klamath Falls; Inv. No. S-5300-58. Bids opened September 18.

CA 10-14. Previous report 9-16

●RESIDENCES, WAREHOUSE— Lane County, Ore.

Bid opening extended from October 9 to 2 p.m., P.S.T., October 30, by U.S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., Portland, for construction of three residences and a warehouse at Oakridge Ranger Station, and two residences at Lowell Ranger Station, Willamette National Forest, Lane County, Ore.; Bid No. R6-59-112. Plans with above office or with Forest Supervisor, Willamette National Forest, Post Office Bldg., Eugene.

All buildings will be one-story ,frame construction; dimensions will be approximately 50'x40' and 64'x30' for the residences, and 65'x32' for the warehouse.

WB 10-11. Previous report 9-24

PARKING FACILITY— Medford, Ore.
(Estimated cost $510,800)

A proposal by Robert J. Kenney, architect, Fluhrer Bldg., Medford, has been submitted to the city council for construction of a 400-car parking facility over the Southern Pacific railroad tracks in downtown Medford. Plans provide for expansion to 1,600 parking spaces.

The initial unit would extend from 5th to Main and have circular entrance and exit ramps at 6th and Front. Plans call for steel and concrete.

DC 10-14

MEDICAL CLINIC— Molalla, Ore.

Bids will be called soon by Dr. Robert Jones, Molalla, for construction of a 4,300 sq. ft. medical clinic building in Molalla. Plans by James L. Payne, architect, 725 S. Commercial St., Salem.

Wood and brick masonry frame; glued laminated arches; wood flooring; asbestos shingles; lath and plaster walls; wood paneling; stained glass windows; aluminum operating sash.

AC 10-10

▲CITY HALL— Monroe, Ore.

A low bid of $4,328 was submitted by Jerry Wall, Junction City, on construction of an addition to the city hall at Monroe. Bids were opened by City Council.

DC 10-14

SCHOOL ADDITION— Moro, Ore.
(Estimated cost $80,000)

Voters in school districts in Sherman County have approved a measure providing for a four-room addition to the high school at Moro. The proposal was favored by voters in Moro and Grass Valley, and not approved by those in Kent, Wasco and Rufus districts.

DC 10-11

●CITY HALL ANNEX ALTERATIONS— Portland, Ore.

Bids to be opened 10 a.m., P.S.T., October 28, by Leonard W. Rayner, city purchasing agent, 208 City Hall, for alterations and revisions of the two-story, 100'x130' building located on corner of S.W. 4th and S.W. Main, for use as a city hall annex. Plans with purchasing agent. $50 deposit. Architects are H. A. Herzog and D. O. Marks, 410 Henry Bldg., Portland. Certified check or bid bond 10%. Separate bids on general, mechanical, electrical.

Wood and plasterboard partitions; acoustical ceiling; asphalt tile flooring; new plumbing and ventilating systems; fluorescent lighting.

DC 10-14

KNOTT STREET CENTER—Portland, Ore.
(Estimated cost $125,000)

Whitney, Hinson & Jacobsen, architects, 512 Failing Bldg., Portland, have been retained by City of Portland, Harry B. Buckley, parks superintendent, City Hall, Portland, to design a new Knott Street Community Center at N. Rodney Ave. The old center will be torn down to the top of the basement walls, and a one-story building constructed. The center will include an auditorium, craft and game rooms, gymnasium, separate boxing rooms, and dressing rooms. Construction is planned to start late in 1959. A $120,000 swimming pool will be built adjacent to the center the following year.

WB 10-7

COMMUNITY CENTER BUILDING— Portland, Ore.
(Estimated cost $300,000)

Hollis E. Johnston, architect, Concord Bldg., Portland, retained by City of Portland, Harry B. Buckley, parks superintendent, City Hall, Portland, to design a 240'x184' community center building at end of S.E. Lamber St. at 23rd Ave. in Westmoreland Park. Construction is scheduled to start early next spring. The building will contain a social room, game rooms, a 96'x112' gym, meeting rooms and dressing rooms. A $120,000 swimming pool will be erected adjacent to the center the following year.

WB 10-8

★BRANCH BANK— Portland, Ore.

Award to Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton, approximately $94,000, by U.S. National Bank of Portland, E. C. Sammons, president, 321 S.W. 6th Ave., Portland, for construction of Woodstock Blvd. Branch bank building, a 42'x101' block and brick structure on northwest corner of S.E. 48th Ave. and Woodstock Blvd. Plans by Irving G. Smith and George C. Kotchik, architects, 701 Portland Trust Bldg., Portland. Bids opened October 2.

WB 10-10. Previous report 10-1

▲RECREATIONAL CENTER—Portland, Ore.

Alternates are listed below for the three low bids on the Portland Exposition-Recreation Center, which includes 360'x360' main arena building, and 153,650 sq. ft. main exhibition hall located underneath the parking area at the front of the building. Bids were opened October 8 by the E-R Commission, in the office of Skidmore, Owings

& Merrill, architects, 2040 S.W. Jefferson St., Portland. Alternates are additive unless otherwise indicated. The commission has 30 days in which to make an award. LOW BIDS: Anderson-Westfall Co., 3427 N.E. Halsey St., $6,223,746 (basic); $42,300 (a); $16,700 (b); $8,400 (c); $7,600 (d); $8,000 (e); $19,400 (f); $63,000 (g); $5,800 (h); $6,100 (i); 1,400 (j); $10,000 (k); $29,400 (l); deduct $15,000 (m-1); deduct $7,445 (m-3); deduct $22,000 (m-4); $25,000 (n)—completion time by August 22, 1960; Hoffman Construction Co., 715 S.W. Columbia St., $6,279,000; $29,000; $16,000; $8,300; $7,500; $10,000; $19,000; $75,000; $4,500; $5,400; $1,750; $8,600; $33,000; deduct $14,500; deduct $2,000; deduct $22,000; $50,000; Smith Phillips Co., 7402 S.W. Macadam Ave., $6,442,000; $42,000; $16,800; $9,030; $7,742; $9,979; $19,425; $73,133; $5,670; $5,975; $1,265; $9,424; $29,820; deduct $14,250; deduct $10,113; deduct $20,900; no change. OTHER BIDS: Sound Construction Co. & Engineering Co., 1300 Aloha St., Seattle, $6,596,396; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco, $7,140,000. Of Portland except as noted. WB 10-10. Previous report 10-9

■ RESTROOMS, BIRD LAKE, PACHYDERM HOUSE— Portland, Ore.
(Estimated cost $230,000)

Planholders announced for construction of public restrooms (basic bid); bird lake (alternate A), and pachyderm house (alternate B), at the Portland Zoological Gardens in Hoyt Park. Bids will be opened 2 p.m., October 23, by L. W. Rayner, City Purchasing Agent, 208 City Hall, Portland. Plans available from purchasing agent to qualified prime contractors only. $50 deposit. Plans on file Builders Exchange, Portland. Plans by Lawrence, Tucker & Wallman, architects, 912 Failing Bldg., Portland.

Planholders: Gene Settergren, 1625 S.E. Woodward St.; A. C. Bardi, 8105 S.E. Duke St.; E. E. Settergren, 3723 S.E. 21st Ave.; D. Diamond Corp., 2839 S.W. 2nd Ave.; Teeples & Thatcher, 8850 S.E. Otty Road. All of Portland.

WB 10-10. Previous report 10-4

▲ HIGH SCHOOL REMODELING— Portland, Ore.

Six bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for general interior remodeling on the four-story Jefferson High School, 5210 N. Kirby Ave., Portland. Plans by Logan & Murtaugh, architects, 1940 S.W. 4th Ave., Portland. Bids opened October 9. BIDS: E. Carl Schiewe, 1024 N.E. Davis St., $1,111,343; O. R. Wayman, 3125 N.W. Front Ave., $1,126,000; A. V. Petersen Co., Box 2368, $1,168,821; A. R. Nieman Construction Co., 2001 Main St., Vancouver, $1,198,670; C. M. Corkum, 2630 S.W. 2nd Ave., $1,220,000; Robertson, Hay & Wallace, 1801 S.E. Grand Ave., $1,291,527. Of Portland except as noted.

WB 10-11. Previous report 10-1

▲ STORAGE BUILDINGS— Portland, Ore. (Ore. and Wash.)

Bids received by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of automotive storage buildings at J. P. Alvey and Covington substations in Lane County, Ore., and King County, Wash.; Inv. No. 8877. BIDS — SCHEDULE 1: Vik Construction Co., Box 3516, Eugene, $19,397; George W. Millett, 330 Sunset Drive, Eugene, $19,915; Steinmuller Construction Co., 907 W. 3rd, Eugene, $20,664; A. C. Bardi, 8105 S.E. Duke St., Portland, $21,999; John Kovtynovich,. 395 Skyline Loop, Eugene, $23,565; Lindbrook Construction Co., Edmonds, Wash., $26,307. SCHEDULE 2: Freigang Construction Co., 7424 Bridgeport Way, Tacoma, $16,641; Lindbrook Construction Co., $19,391; Hallidie Machine Co., Seattle, $22,998; (alternate) $18,977. Bids opened October 9.

WB 10-11. Previous report 10-1

● ASCENSION CONVENT— Portland, Ore. (Sub-Bids)

Sub-contract bids will be received until 5 p.m., October 24, by A. N. Minden Co., 11320 N.E. Marx St., Portland, for construction of a one-story and basement, 8,400 sq. ft. wood frame convent for Ascension Parish, 765 S.E. 76th Ave., Portland. Plans by Elmer Zeller, architect, 2014 N.E. Sandy Blvd., Portland.

Convent will house 14 nuns, and include chapel; brick veneer an dcedar siding; glued laminated beams over chapel; aluminum sash; asbestos plastic shingles; linoleum, vinyl asbestos and ceramic tile flooring; plaster walls and ceilings, except some fissured mineral acoustical ceiling tile; radiant heat in basement floor; steam heat on upper floor; folding door between community room and refectory; built-in kitchen appliances. WB 10-11

● SHOP REMODELING— Portland, Ore.

Bid opening postponed from October 16 to 3 p.m., October 20, by 337th Fighter Group, Portland International Airport, Portland, for modification of a battery shop in Bldg. T-736, at the airport; Inv. 35-608-59-20. WB 10-11. Previous report 9-23

● CONSTRUCT LATRINE— Portland, Ore.

Bid opening postponed from October 15 to 2 p.m., October 20, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for construction of a latrine in Bldg. T-1113, at the airport; Inv. 35-608-59-19.

WB 10-11. Previous report 9-20

▲ MARKET BUILDING— Portland, Ore.

Five bids received by Joe Hughes, owner, Hughes Market, 10209 S.E. Division St., Portland, for construction of a 80'x104' masonry one-story with basement market building to replace the existing building, which must be moved for a street widening project. Plans by Paul Wallwork, architect, 202 Hughes Bldg., Portland. Bids opened October 13. BIDS: C. M. Corkum, 2630 S.W. 2nd Ave., $53,745; St. Pierre & Vermilyea, 10505 N.E. Beech St., $64,250; R. L. Greene, 5103 N.E. 42nd Ave., $66,797; Beebe Construction Co., 2134 N. Flint Ave., $67,354; Teeples & Thatcher, 8850 S.E. Otty Road, $68,700. Of Portland.

WB 10-15. Previous report 10-9

STORE EXPANSION— Portland, Ore.

Bid call withdrawn by Smith's Home Furnishings, 3016 S.E. Division St., Portland, for construction of first phase of 70'x100' reinforced concrete addition to the store. Plans are being revised by Raymond Kermit Thompson and Polly Povey Thompson, architects, 202 Hughes Bldg., Portland, and project will be put out for bid again in about a month. Bid opening was scheduled for October 17.

WB 10-15. Previous report 9-26

■ CHURCH BUILDING— Portland, Ore.

Planholders announced for construction of a concrete and wood, two-level, 36'x60' church building at 3917 S.E. Knapp St. Bids will be opened 7.30 p.m., October 21, by Holy Trinity Lutheran Church, Ernest F. Hinkle, chairman of building committee, 3917 S.E. Knapp St., Portland. Plans with Wicks & Brown, architects, 1129 Commercial St., Astoria, or from the Rev. M. R. Anderson, pastor, 3636 S.E. Glenwood St., Portland. $25 deposit.

Planholders: Mason & Robinson, 2004 N.E. 137th Ave.; Norman Builders, 2805 S.W. 3rd Ave.; A. C. Bardi, 8105 S.E. Duke St.; Weston Construction Co., 7415 N.E. Glisan St.; E. E. Settergren, 3723 S.E. 21st Ave.; Sterner Construction Co., 13845 S.E. Rhine St.; A. C. Edmon, 4120 S.E. Gladstone St.; Gene Settergren, 1625 S.E. Woodward St.; D. Diamond Corp., Box 367. All of Portland. WB 10-15. Previous report 10-3

▲ UNIT HEATERS— Portland, Ore.

Seven bids received by City Purchasing Agent, 208 City Hall, Portland, for furnishing three gas-fired unit heaters for Department of Public Works. Bids opened October 13. TWO LOW: McCoy Plumbing, 2101 N.E. Union Ave., $739; Consolidated Supply Co., 2300 N.W. 26th Ave., $741. HI BID: Power Plant Engineering Co. of Oregon, 4069 N.E. Union Ave., $929. Of Portland. WB 10-15. Previous report 9-30

▲ FOLDING BLEACHER SEATS— Portland, Ore.

Seven bids received by Portland School District No. 1, 620 N.E. Halsey St., Portland, for folding bleacher seats in gymnasium at Washington High School, 12th S.E. 14th Ave., Portland. Bids opened October 8. LOW BIDS: B. F. Shearer Co., 1947 N.W. Kearney St., $15,988; (alternate) $14,900; Northern School Supply Co., 2890 N.W. 31st Ave., $17,561. HI BID: Seattle Safway Scaffold Co. of Ore., 2021 S.E. Grand Ave., $20,747. Of Portland.

WB 10-15. Previous report 9-11

● SHOP ALTERATIONS— Portland, Ore.

Bids will be opened 2 p.m., November 7, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for modification of a shop addition to Bldg. T-736, at Portland International Airport; Inv. IFB-59-24. WB 10-15

PARSONAGE— Salem, Ore.
(Estimated cost $22,000)

Bids will be called late in October by building committee of First Methodist Church, Dallas, for a parsonage on Mill and Levens streets in Dallas. Plans are being prepared by James L. Payne, architect, 325 S. Commercial, Salem.

Structure will be built on a 90'x90' lot. Plans call for wood frame; cedar shingles; slate entrance; glass blocks; cork tile flooring; hot water, baseboard heating.

DM 10-14. Previous report 9-30

TRANSMITTER-RECEIVER BUILDING— Salem (Mt. Hebo), Ore.

Bids will be called soon by Civil Aeronautics Administration, procurement branch, 5651 W. Manchester Ave., (Box 90007), Los Angeles, Calif., on an ARSR-1 Facility at Salem (Mt. Hebo), Ore.; Proposal No. 4-59-985. Project involves construction of a concrete block, 30'x70' transmitter-receiver building; erection of a government-furnished 50' steel tower; construction of frame 20'x37' garage; construction of 28'x32' concrete block living quarters; surfacing 300' of access road at the Mt. Hebo Military Radar Site in Salem. DM 10-8

CHURCH WING— Salem, Ore.

Working drawings will be started soon by James L. Payne, architect, 725 S. Commercial, Salem, for a 40'x60', two-story plus basement Sunday School wing to be located on the east side of the existing church at Church and State streets, in Salem, for Salem First Methodist Church, 600 State St., Salem. AC 10-10

● CHURCH— Salem, Ore.

Sub contract figures are being accepted by E. E. Batterman, 146 N. Commercial, Salem, for work on First Presbyterian Church of Salem. The existing structure is being moved from its present site to a new location. Footings and foundation walls are now being poured. An educational unit and chapel will be added to the present structure. Plans were prepared by James L. Payne, architect, 725 S. Commercial, Salem. DC 10-11

ARS FACILITY (Building, Tower, Road)— Salem, Ore.

Bids will be called soon by Civil Aeronautics Administration, procurement branch, 5651 W. Manchester Ave. (Box 90007), Los Angeles, Calif., for construction of ARSR-1 Facility involving Sched. 1—concrete block, 30'x70', transmitter-receiver building and erection of 50' steel tower (government furnished), Sched. 2, 3, 4—about one mi. of surfaced access road, 20'x37' wood frame garage, 28'x30' concrete block living quarters; all at Laurel Mountain in Salem, Ore.; Proposals No. 4-59-990. DM 10-11

▲ STEEL BUILDING— Salem, Ore.

A low bid of $38,995 was submitted by Robert D. Morrow, 3365 S. Commercial, Salem, to Marion County Court, 110 Courthouse, Salem, for erection of a 40'x100' steel building to be used as a storage shed at the county shop area. Architect is Don W. Richardson, 2440 Commercial S.E., Salem.

Other bidders were Mills Construction Co., 502 Kingwood Drive, Salem, $42,150; Cecil A. Lantz, 1053 S. Commercial, Salem, $43,231. DC 10-11. Previous report 9-30

●MAINTENANCE SHOP— Salem, Ore.

Bid opening extended from October 10 to October 22, for construction of 36'x60' concrete block building for use as an organizational maintenance shop at 2150 Fairgrounds Road in Salem. Bids will be received by National Guard Bureau, in office of Lt. Col. William H. Adams, U.S. Property and Fiscal Office, 504 State Office Bldg., Salem. Plans with Lt. Col Adams' office.

Concrete floor; glued laminated beams; 2" t&g decking; built-up roofing; aluminum sash; overhead metal doors.

CA 10-11. Previous report 10-1

▲CITY HALL ADDITION— Scappoose, Ore.

Seven bids ranging from a low of $8,450 by Ron Nelson, Columbia City, to a high of $10,266, were submitted to City Council, City Hall, Scappoose, for construction of a concrete block addition to the city's city hall. Bids opened October 6.

OTHER BIDS: Midway Electric Inc., St. Helens, no figure released; Clyde Mathews, Scappoose, $8,487; Russ Heider, 7040 N. Portsmith Ave., Portland, $9,371; James Lyons, Portland, $9,695; A. C. Bardi, 8105 S.E. Duke St., Portland, $9,994; Freeland Electric, Columbia City, $10,266.

CA 10-10. Previous report 10-3

●SHOP BUILDING— Scappoose, Ore.

Bids will be opened 8:15 p.m., October 23, School District No. 4J, Columbia County, Faye Tarbhell, clerk, Scappoose Union High School Bldg., Scappoose, for construction of a 12,000 sq. ft. steel and concrete shop building connected by covered walkway to the high school. Plans with Potter & Robinson, architects, 1920 S.W. 57th Ave., Portland. $25 deposit. Certified check or bid bond 5%.

Building will contain agricultural and woodworking shops, band room, assembly room, toilets, heating plant and accessory room. Light steel frame; cement block filler walls; open web joists; wood or concrete board deck; built-up roof; plastic skylights; steel sash; concrete slab floor; some resilient floor covering; some cabinet work; some acoustical tile; incandescent lighting; oil-fired, forced hot water heating plant.

WB 10-10

CHURCH— Stayton, Ore.

Construction has started under supervision of Ed Thompson, building superintendent, on a 40'x90' sanctuary addition to the Church of Christ in Stayton. Volunteer labor will be used. Plans call for brick veneer and rough-sawn cedar siding.

DC 10-11

●SERVICE BUILDING— The Dalles Dam, Ore.

Bid opening extended from October 20 to 2 p.m., P.S.T., October 27, on construction of a concrete service building and miscellaneous features at The Dalles Dam on the Columbia River, Wasco County, Ore.; CIVENG-35-026-59-49. Bids will be opened by Corps of Engineers, Portland district, 628 Pittock Block, Portland. Plans with same office.

Planholders: Jensen - Rasmussen & Co., Box 89, Sunnyside, Wash.; James S. Hickey, Inc., Portland, Ore.; Lorentz Bruun Co., 3636 S.E. 20th, Portland; George Chicha Co., E. 2917 Sharp, Spokane; Timber Structures, Box 3782, Portland; Henry M. Mason Co., 2296 N.W. Thurman, Portland; General Construction Co., 4850 N.W. Front, Portland; Zuber Bros. Contractors, 3600 S.E. 28th, Portland; Holman Erection Co., 3515 E. 43rd, Minneapolis, Minn.; Roy L. Martin, Box 486, Portland; Thompson & Georgeson, Inc., Box 2106, Portland; Wayne Construction, Inc., 42424 22nd W., Seattle, Wash.; Western Fabricators, 1239 S.E. 12th, Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th, Portland; E. G. Homan, Box 38, Lacey; John Kovtynovich, 395 Skyline Loop, Eugene; Max J. Kuney Co., 1510 N.E. Wasco, Portland; Anderson-Westfall Co., Inc., 3427 N.E. Halsey, Portland; A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland; Bardi Construction Co., 8105 S.E. Duke, Portland; Charles S. Campian, 2035 S.W. 58th, Portland; Lewis Hopkins Co., 221 S. 3rd, Pasco.

DM 10-14. Previous report 10-9

▲ADMINISTRATION BUILDING— Troutdale, Ore.

Twelve bids received by School District No. 7, Multnomah County, Robert Sproul, clerk, at Reynolds High School Bldg., 20204 N.E. Halsey St., Portland, for construction of a 2,000 sq. ft. frame and brick administration building at Troutdale. Plans by Broome & Selig, architects, 203 State Bank Bldg., Gresham. Bids opened October 7. BIDS: Raymond B. Ems, 13385 S.W. 72nd Ave., (basic) $23,850; Lorentz Bruun, 3636 S.E. 20th Ave., $26,674; Mason & Robinson, 2004 N.E. 137th Ave., $26,880; Norman Builders, 2805 S.W. 3rd Ave., $26,891; John McGrath, 8213 N. Woolsey, $27,378; Anfelt B. Hansen, 4115 S.E. Ogden St., $27,860; Howard Swanson, Route 2, Gresham, $27,876; Serge R. Perrin, 405 Ogden Drive, Oregon City, $28,930; A. C. Bardi, 8105 S.E. Duke St., $29,939; Weston Construction Co., 7415 N.E. Glisan St., $29,990; Associated Building Contractors, Inc., 7117 S.E. Main St., $30,246; B. & H. Construction Co., Boring, $32,654. Of Portland except as noted.

WB 10-10. Previous report 9-30

▲CEDAR OAK PARK SCHOOL— West Linn, Ore.

Nine bids ranging from $149,545 by St. Pierre & Vermilyea, 9750 S.W. 145th, Portland, to a high of $164,876, were received October 9 by West Linn School District No. 3-C, West Linn, on construction of six-classroom concrete, Cedar Oak Park Elementary School, 1725 McKillican, West Linn. Second low was Supreme Building Contractors, Inc., 7117 S.E. Main, Portland, $152,360. Architect is Annand, Boone & Lei, 1530 S.W. Taylor, Portland.

WB 10-11. Previous report 10-1

WASHINGTON

▲ELEMENTARY SCHOOL— Auburn, Wash.

Fifteen general, eight each of mechanical and electrical bids received by Auburn School District No. 408, 9420 S. 240th, Auburn, for construction of 20-classroom, 38,000 sq. ft., Pioneer Elementary School on S. 350th between 94th and 96th S. in Auburn. Bids opened October 10. Plans by Don Allison & Associates, architects, 28 1st S.E., Auburn. LOW BIDS—GENERAL: Industrial Engineers & Contractors, Inc., Box 1096, $323,600. MECHANICAL: Lent's, Inc., 279 4th St., Bremerton, $98,450. ELECTRICAL: Electric Associates, 2911 S. Chandler, 1650 Center St., Tacoma, $25,868.

OTHER BIDS — GENERAL: Dahlgren Construction Co., 1700 21st St., Seattle, $336,600; G. Kirkebo & Son, Inc., 1410 Mountain View, $342,800; E. H. Moore & Sons, 693 Mission St., San Francisco, Calif., $343,000; Northern Construction Co., 6320 6th Ave., $343,487; Nelson Construction Co., 2944 S. L St., $348,600; Anderson Construction Co., 115 S. 9th, $349,354; H. Halvorson, Inc., 20054 Pacific Highway S., Seattle, $349,647; Korsmo Bros., 5944 Lake Grove Ave. S.W., $355,072; Constructors, Inc., 7906 Leschi Road S.W., $355,862; Andy Johnson Co., 517 Simpson Ave., Aberdeen, $357,475; E. F. Shuck Construction Co., 535 Pontius Ave., Seattle, $358,681; Construction Engineers & Contractors, 801 Port of Tacoma Road, $359,250; C. E. Skinner, Box 706, Orting, $397,827; Vandivort Construction Co., Inc., Box 1647, McKittrick St., Wenatchee, $415,170. Of Tacoma except as noted.

MECHANICAL: Kaelin Plumbing and Heating, Inc., 2111 Center St., $104,300; Weber Plumbing and Heating, Inc., 110 N. Tacoma Ave., $115,986; Tease & Son, no address, $120,000; Central Plumbing and Heating, 510 S. 1st, Yakima, $122,629; L. G. Massart Plumbing and Heating Co., 4501 9th N.W., Seattle, $128,500; Mac Boyker, 202 1st, Kent, $135,210; Boyker Plumbing and Heating, Inc., 2627 Eastlake, Seattle, $136,570. Of Tacoma except as noted.

ELECTRICAL: Chapman Electric, 107 Williams, Renton, $26,289; Northwest Electric Co., 420 Yale N., Seattle, $26,965; Van

- Architects
- Engineers
- Contractors
- Homebuilders

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S. McKenny Co., Inc., 104 Wall St., Seattle, $28,790; Conners Electric, 103 S. 28th, $29,220; Donald W. Close Co., 2921 13th Ave. S.W., Seattle, $29,650; Valley Electric Co., 126 W. Main, Auburn, $30,517; Ace Electric Co., 2306 E. 11th. Of Tacoma except as noted.

Eighteen of the 20 classrooms will be in cluster units of six classrooms each. A separate unit will house multipurpose, kitchen, and administrative facilities.

PD 10-14. Previous report 10-9

●BOILERS—
Ault Field, Whidbey Island, Wash.
(Estimated cost $25,000 to $100,000)

Bids to be opened 2 p.m., P.S.T., October 30 by 13th Naval District, Bureau of Yards and Docks, Bldg. 250, U.S. Naval Station, Seattle, for replacement of three existing boilers in buildings at Ault Field, Whidbey Island; Spec. No. 18395/58. Plans with Seattle office.

Bldg. 113—Remove existing boilers, inactive piping and unrequired equipment; replace with one new boiler and related equipment. Bldg. 127—Replace two existing boilers with new boilers and related equipment. DM 10-15

ELEMENTARY SCHOOL ADDITION—
Blaine, Wash.

Working drawings are underway by William Arild Johnson & Associates, 3506 Broadway, Everett, for a five-classroom and library addition to Blaine elementary school, Blaine School District No. 503, Blaine, Whatcom County. The 9,200 sq. ft. addition will be frame construction with brick veneer. CA 10-8

JUNIOR HIGH SCHOOL ADDITION—
Bothell, Wash.

Bids will be called soon by Bothell School District No. 46, Box 128, Bothell, for an addition to existing junior high school, Bothell. Working drawings are underway by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle. PD 10-7

● COLLEGE ADDITION, ALTERATIONS—
Bremerton, Wash.
(Estimated cost $98,000)

Description is given below on an addition and alterations to the Library-Administration Center at Olympic College, 16th and Chester, Bremerton, on which bids will be opened 8 p.m., November 13, by Bremerton School District No. 100-C in the district office, Burwell and Montgomery streets, Bremerton. Plans with Branch & Branch, architects, 2616 E. 11th, Bremerton. $25 deposit. Certified check, cashier's check or bid bond 5%.

Partial demolition and rebuilding of existing building—one-story, no basement; 14,534 sq. ft.; driven wood piling and concrete beams; block walls, aluminum curtain wall; frame floors; flat roof; frame partitions; concrete stairways; aluminum windows; blanket insulation in walls and roof; factory finish on curtain wall, drywall painted elsewhere; metal and wood trim; drywall interior partitions; asphalt tile flooring; drywall and acoustical ceiling; wood and steel doors; fire doors; sky domes; fluorescent and incandescent lighting in suspended ceiling; hot water heating, oil-fired; exhaust fans. DM 10-14. Previous report 10-8

■ HEATING PLANT— Bremerton, Wash.

Plans have been taken out by Lent's, Inc., 279 4th, Bremerton; Standard Plumbing and Heating, E. 10th and Shore Drive, Bremerton; and S. M. Gilbert Co., Inc., 7100 E. Marginal Way, Seattle, for construction of a central heating plant for the A Bldg. and the Library-Administration Center at Olympic College, 16th and Chester streets, Bremerton. Bids will be opened 8 p.m., October 23, by Bremerton School District No. 100-C, Burwell and Montgomery streets, Bremerton. Plans with Branch & Branch, architects, 2616 E. 11th, Bremerton.

DM 10-14. Previous report 10-8

● ELEMENTARY SCHOOL ADDITION—
Bremerton, Wash.
(Estimated cost $77,500)

Description is given below on construction of a one-story, no basement, 4,656 sq. ft., addition to the View Ridge Elementary School in Bremerton on which bids will be opened 8 p.m, November 13, by Bremerton School District No. 100-C in the district office, Burwell and Montgomery streets, Bremerton. Plans with Branch & Branch, architects, 2616 E. 11th, Bremerton. $25 deposit. Certified check, cashier's check or bid bond 5%.

Rectangular shaped structure, 65'x80'; concrete spread on footings and foundation. Solid masonry, block walls; concrete slab floors; timber and steel beams; flat roof with glued laminated beams and steel truss; masonry partitions; steel windows; rigid insulation in roof. Finish construction—paint on exterior and interior walls; exposed masonry partitions; asphalt tile flooring; 3" roof deck, acoustical ceilings; wood and steel doors; wood cabinets; corrugated plastic panels; blackboards; fluorescent lighting strips, exposed; hot water heating, oil-fired; ventilating fans.

DM 10-14. Previous report 10-8

● RESIDENCE— Burien, Wash.

Bids will be received until 12 noon, October 24th, by Ray Ballard, M.D., owner, in office of Maurice Sullam, architect, 1826 Broadway, Seattle, for construction of a 2,000 sq. ft., one-story and partial daylight basement residence on Des Moines Way in the Burien area. Plans with the architect. $5 deposit.

Pitched roof; Tectum roof decking which forms acoustical ceiling; glued laminated beams; steel posts, some wood posts; concrete slab-on-grade; reinforced concrete slab over basement area; 2¼"x8"x16" pumice stone block exterior; glass stopped in wood, aluminum vents; two pair aluminum sliding doors; masonry partitions; vinyl flooring; carpeting by owner; wood cabinets; ceramic tile counter tops; gas-fired warm air heating. PD 10-11. Previous report 10-1

SCHOOL— Cathcart, Wash.
(Estimated cost $240,000)

Voters in Cathcart School District No. 109, Route 3, Snohomish, have approved two measures which will make possible the construction of a new school at Cathcart. The measures included a $17,000 levy and a $45,000 general obligation bond issue.

MH 10-8. Previous report 8-29

REMODEL CITY HALL— Chehalis, Wash.
(Estimated cost $30,000)

Preliminary plans have been started by Clyde Faithfull, designer, Masonic Bldg., Centralia on remodeling the Chehalis City Hall. Exterior of the building will be rebricked and the interior will undergo extensive changes. DC 10-15

★SUPERMARKET— Cheney, Wash.

Award to Harold Stallings, E. 18th, Spokane, $52,000, by Mamie Ottomeier, Cheney, for a 100'x60' supermarket building in Cheney. Plans call for cement and pumice block and a parking lot for 50 cars. Completion is scheduled by end of December. Lessees will be Gibson's and Homes Bros.

MH 10-11

CHURCH— Colfax, Wash.

Preliminary studies are being made by Rev. Charles H. Fox, pastor, Church of the Good Samaritan, Colfax (temporary mailing address RFD Steptoe) for a new church structure to replace the one razed by fire.

It has not yet been decided whether to use the same site or acquire a new one. Planning is being assisted by Bishop Russell S. Hubbard, Episcopal Bishop of the Missionary District of Spokane, 2245 13th, Spokane.

MH 10-10

★SCHOOL ADDITION— Coupeville, Wash.

Award to Frank Damson, Box 725, Everett, $48,770 (base bid plus alternates) by Coupeville Consolidated School District No. 240, Coupeville, for construction of a one-story, wood frame, three-classroom addition to the multipurpose building at Coupeville School. Architect is Carlson, Eley, Grevstad, 432 Eastlake Ave., Seattle.

OTHER BIDS: Anderson & Bustad, 1104 Riverside Drive, Mount Vernon, $46,720; Winterburn Construction Co., Box 202, Port Townsend, $47,950; Sanford Wright, Box 809, Everett, $48,233; Ralph C. Ward, RFD, Coupeville, $49,898; Metropolitan Construction Co., 1008 Broadway, Everett, $51,000; Eiford-Sather Construction Co., Box 453, Anacortes, $51,424; Shaffer Construction Co., Box 804, Everett, $58,608. All figures are basic.

Plans call for an enclosed corridor; brick veneer exterior walls; glued laminated beam roof framing; timber decking; built-up roofing; steel sash; plaster interior finish; acoustical tile on ceilings; hardwood floor; factory-built casework; extension of existing steam radiation system. Alternate bids will be taken for a sewer connection and for asphaltic concrete paving.

DM 10-15. Previous report 10-11

POST OFFICE— Deer Park, Wash.

A post office will be constructed by Homer L. Hale, Chattaroy, Wash., on the corner of 1st and Vernon in Deer Park. The structure will be leased to the Federal Government.

One-story, masonry walls, 1,674 sq. ft. with 88 sq. ft. loading apron. Plans call for fluorescent lighting, asphaltic tile flooring, acoustical tile ceiling. MH 10-14

SPRINKLER SYSTEM—
Deep Creek AFS, Wash.

Bids will be called soon by Corps of Engineers, 4735 E. Marginal Way, Seattle for installation of sprinkler system containing about 52 sprinkler heads in Structure S, installation of water supply line and post indicator, at Deep Creek Air Force Station, Wash.; ENG-45-108-59-20. Completion time 90 calendar days. DM 10-15

★VORTAC FACILITY (Buildings, Utilities)— Ellensburg, Wash.

Award to Barfis Co., 3931 Ridgeley Drive, Los Angeles, Calif., second low bidder, $24,145, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, for conversion of an existing VOR facility located about three mi. southeast of Ellensburg, into a VORTAC facility; Proposal 4-59-948. Bids opened September 29. The low bid of H.B. Nesheim, 6714 36th Ave. S.W., Seattle, $22,769, was rejected as nonresponsive. DM 10-14. Previous report 9-17

JUNIOR HIGH SCHOOL— Ephrata, Wash.

Bonds in amount of $490,000 will be voted upon November 4 to finance construction of a new Junior High School, remodeling and repairing existing buildings and the acquisition of land, for Ephrata School District No. 165, Ephrata. Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima have been retained to prepare plans for the new junior high school. IG 10-15

CHURCH— Everett, Wash.

Fund raising is underway by St. Mary Magdalen Church, Reverend William P. Lane, 8714 9th S.E., Everett, for construction of a 600-person capacity church in Everett. Present plans include administration portion of a parish school and several classrooms. Plans by Botesch and Brown, Commerce Bldg., Everett. HH 10-10

■ HOSPITAL ADDITION— Everett, Wash.
(Estimated cost $969,610)

Planholders announced for construction of three additions to Everett General Hospital, 1321 Colby, Everett, on which bids will be opened 2 p.m., October 24, by Board of Directors in office of Anson B. Moody, president of the Board. Plans with John W. Maloney, architect, 754 Central Bldg., Seattle. Select list of bidders.

Planholders: Sound Construction and Engineering Co., 1300 Aloha; Howard S. Wright, Box 3764; Wick Construction Co., 720 N. 35th; J. C. Boespflug, 1912 4th S.; W. G. Clark, 408 Aurora; James I. Barnes Construction Co., Central Bldg.; Cawdrey & Vemo, Inc., 3601 Fremont. Of Seattle.

PC 10-11. Previous report 10-10

■ HOSPITAL ADDITION— Everett, Wash.

Wick Construction Co., 720 N. 35th, Seattle, has taken out plans on construction of three additions to Everett General Hospital, 1321 Colby, Everett, on which bids will be opened 2 p.m., October 24 by

Board of Directors. The proposals will be opened in office of Anson B. Moody, director, in the hospital. Architect is John W. Maloney, 754 Central Bldg., Seattle.
DM 10-15. Previous report 10-11

HIGH SCHOOL ADDITION— Friday Harbor, Wash.
(Estimated cost $150,000)
Working drawings are underway by Edward Mahlum, architect, Lloyd Bldg., Seattle, for a one-story addition to existing high school building, for San Juan School District No. 149, Gunnar Tranum, superintendent, Friday Harbor.
MH 10-8. Previous report 9-25

BIBLE COLLEGE— Houghton, Wash.
Bryant, Butterfield & Aehle, architects, Sager Bldg., Everett, are preparing plans for the Northwest Bible College, to be constructed on a 22-acre site formerly known as Stewart Heights housing project in Houghton. Plans call for classrooms, dormitories, cafeteria, administration building, library and chapel. Construction will be under supervision of H. J. Secrist, 8525 Juanita Drive N.E. Kirkland. First phase will include a main college building, and remodeling of an existing building on the site. A drive is underway to raise $500,000 to finance the buildings. PD 10-10

●CHURCH— Kelso, Wash.
(Estimated cost $100,000)
Bids to be opened 7:30 p.m., October 27 by building committee of First Presbyterian Church in the educational building at 3rd and Academy, Vancouver, for construction of a concrete and brick veneer, 4000 sq. ft. sanctuary building. Plans with Weaver & Lalonde, architects, Central Bldg., Vancouver.
The structure will be erected on site of existing sanctuary and will be connected to the educational building.
Reinforced concrete with steel roof trusses; aluminum sash with cathedral glass and brick veneer; 2" t&g deck will support cement tile roof over the sanctuary portion; built-up roofing with gravel surfacing elsewhere; plaster interior walls and partitions; asphalt tile flooring; electric heating system using floor cables in sanctuary and electrical ventilation unit with duct work over the attic; fluorescent lighting.
Planholders: Walter Kellogg, 940 U.S. Highway 99 N., Kelso; K. T. Henderson, Inc., 1362 Colorado, Longview; Sam Steiner, 707 14th, Longview; Quoidbach Construction Co., 1422 Commerce, Longview; J. J. Flaskerud, 2151 Delaware, Longview; Charles E. Hansen, 614 Grade, Kelso. DC 10-15

■HOUSING IMPROVEMENTS— Larson AFB, Wash.
Planholders announced for remodeling and constructing additions to the 800 units of Wherry Housing on Larson Air Force Base; Inv. No. 59-16. Bids will be opened 2 p.m., November 5, by base procurement office, Larson AFB, on remodeling and constructing additions to the 800 units of Wherry Housing on the base. Plans in Bldg. 1901. Architects are Cowan & Paddock, Larson Bldg., Yakima.
Planholders—GENERAL: L & S Construction Co., Box 1585, Moses Lake; Yager Construction Co., Inc., 1st Ave. and A St. S.E., Ephrata; Fairbanks Construction Co., Herold Bldg., 308 Gumwood, Moses Lake; H. Halvorson, Inc., Box 6, Yardley; George A. Fuller Co., 3100 W. 8th, Los Angeles, Calif.; Jensen-Rasmussen & Co., Box 89, Sunnyside; Lewis A. Hopkins Co., 221 S. 3rd St., Pasco; Wayne Construction Co., 3810 Stone Way, Seattle.
MECHANICAL: Lent's, Inc., 279 4th, Bremerton; Grant County Plumbing and Heating Co., Box 1567, Moses Lake; Ballard Co., 1537 Ballard Way, Seattle; Wenzler & Ward Plumbing and Heating, Inc., 2109 Western Ave., Seattle.
ELECTRICAL: Trowbridge Electric Co., 214 W. Main, Medford, Ore.
Plans call for 28 items of work, which include: structural repairs and alterations; repairs to roofing, sash, and mechanical and electrical facilities including replacement of electrical service panels, installation of storm windows and screens; installation of kitchen cabinets, and construction of additions to some units. Sixteen alternate items call for additions to more units, additional kitchen cabinets, sidewalks, repair of driveways, and 60,000 sq. yds. of repair of streets. PD 10-15. Previous report 10-14

SWIMMING POOL— Longview, Wash.
Architects, McGuire & Muri, 231 Broadway, Tacoma have been selected by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview, to prepare plans for an indoor-outdoor swimming pool to be built at the adjoining Mark Morris High School and Lower Columbia Junior College at Longview.
DM 10-8. Previous report 7-5

JUNIOR HIGH SCHOOL— Longview, Wash.
Architect will be selected about December by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview, to prepare plans for a new junior high school at Longview.
DM 10-10. Previous report 7-5

SUNDAY SCHOOL ADDITION— Lynnwood, Wash.
(Estimated cost $45,000)
Construction will be started soon on a 5,510 sq. ft., one-story and daylight basement Sunday School addition to Maplewood Presbyterian Church, 84th W. and 196th S.W., Lynnwood. A member of the church will supervise construction. Sub-bids may be called later this fall. Plans by Alfred F. Simonson, architect, 11728 Aurora Ave., Seattle, include classrooms, kitchenette, small office, toilet facilities.
Wood frame; pitched roof, composition; 3" batt insulation in roof; vertical cedar siding, brick trim; aluminum sash; acoustical ceiling; ⅝" plywood floor, asbestos vinyl flooring; drywell partitions; oil-fired warm air heating system for entire structure. PD 10-11. Previous report 10-1

ELEMENTARY SCHOOL— Marysville (Tulalip Reservation), Wash.
(Estimated cost $340,203)
Plans will be completed in November by Harry E. Botesch, architect, and F. Edward Brown, associate, 504 Commercial Bldg., Everett, on a one-story, 22,343 sq. ft., elementary school on the Tulalip Reservation for Marysville School District No. 25, Marysville.
Reinforced concrete footings, foundation; solid masonry walls; concrete slab floor; steel "tee" columns; glued laminated beams; masonry partitions; concrete stairway; aluminum windows; insulation of basic 1" rigid over 2"x6" t&g decking; masonry exterior wall finish with lead and oil trim; lead and oil, stain and varnish interior finish; exposed masonry interior partitions; asphalt tile, ceramic tile flooring; acoustical ceiling of perforated tiles over stripping; hollow metal exterior doors, wood for other doors; plastic surfaced cabinets; refrigeration in kitchen; blackboards; fluorescent and incandescent lighting; electric heat; motor exhausters in ventilating system.
HH 10-9

GRADE SCHOOL ADDITION— McCleary, Wash.
A special levy will be placed on the November 4 ballot by McCleary School District No. 106, McCleary, to finance construction of a 7,400 sq. ft. addition to an elementary school in Blaine. CA 10-8

SCHOOLS— Medical Lake, Wash.
An election will be held in Medical Lake on November 4 on a proposed 40-mill tax levy that would finance construction of an 11-room elementary school with multipurpose room, and conversion of the present Medical Lake elementary school to a high school building, adding five rooms to expand it to a 300-student high school. Election will be held by Medical Lake School District No. 326. MH 10-9

HIGH SCHOOL ADDITION— Menlo, Wash.
Preliminary plans are underway by William Arild Johnson and Associates, 3506 Broadway, Everett, for construction of an addition to the high school in Willapa Valley School District No. 117, Menlo. Plans call for a separate building comprising a multipurpose room, shop and four classrooms. The building is to have its own oil burning heating and will be heated by hot water unit ventilators. Bids to be called in late fall.
CA 10-9

★PROFESSIONAL CENTER— Moses Lake, Wash.
Award announced by Dr. William Seargent, W. 415 3rd, and Dr. E. V. Lindell, W. 415 3rd, both of Moses Lake, for construction of a professional center, unit No. 2. Plans by Donald R. Hollingbery, architect, W. 1551 Highway 10, Moses Lake. AWARDS—GENERAL: L & S Construction Co., W. 1014 Broadway, Moses Lake, $20,857. MECHANICAL: Leonard Plumbing Co., W. 1416 Pheasant Drive, Moses Lake, $7,373. ELECTRICAL: Don Swartz Electric Co., E. 114 Broadway, $2,675. CA 10-11. Previous report 10-1

HIGH SCHOOL— Mountlake Terrace, Wash.
Working drawings will be started soon by Ralph Burkhard, architect, 2120 S.W. 152nd, Seattle, following approval of preliminary plans by Edmonds School District No. 15, Harold Silvernail, superintendent, 4th and Daley, Edmonds, for construction of a high school in Mountlake Terrace.
PD 10-8. Previous report 12-5-57

RETAIL STORE, MEDICAL OFFICES— Mount Vernon, Wash.
Bids will be called in November by H. A. Molstad, owners, for construction of a two-story, 58'x120' building on the northwest corner of 1st St. and Pine, Mount Vernon. Working drawings are near completion by Hovind, Harthorne & Smith, architects, 1500 Westlake N., Seattle. Building will have retail stores on first floor, medical offices on second floor. Structure will be on treated wood piling foundation.
Steel joists, metal roof deck; steel frame; concrete slab-on-grade (first floor); concrete over steel joists (second floor); ceramic tile (porcelain steel alternate) exterior; aluminum sash; drywall partitions; vinyl asbestos (vinyl alternate) flooring; sun-control verti-

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cal louvres on second floor; gas or oil-fired hot water heating; air conditioning. Plans include an aluminum marquee which projects six feet. PD 10-10

RETAIL BUILDING—Mount Vernon, Wash.

Bids will be called in November by V. Kean, owner, for construction of a one-story, 28'x100' retail building on the northwest corner of 1st St. and Pine, Mount Vernon. Working drawings are near completion by Hovind, Harthorne & Smith, architects, 1500 Westlake N., Seattle. Structure will be on treated wood piling.

Glued laminated beams; wood joists; concrete slab-on-grade; ceramic tile (porcelain steel alternate) exterior; aluminum sash; drywall partitions; vinyl asbestos (vinyl alternate) flooring; gas or oil-fired hot water heating; air conditioning. Plans include an aluminum marquee which projects six feet. PD 10-10

■ JUNIOR HIGH SCHOOL ADDITION— Mukilteo, Wash.

Additional planholders announced for construction of a 10,000 sq. ft., one-story, no basement, two-unit addition to Olympic View Junior High School, Mukilteo. Bids will be opened 8 p.m., October 22, by Board of Directors, Mukilteo School District No. 6, in office of district superintendent, Rose Hill School, Mukilteo. Plans with Waldron & Dietz, architects, 215 8th Ave. N., Seattle.

Additional planholders—GENERAL: Shaffer Construction Co., Box 804, Everett; Dahlgren Construction Co., 1700 21st S., Seattle; Newland Construction Co., Box 230, Everett. MECHANICAL: L. G. Massart Plumbing and Heating Co., 4501 9th N.W., Seattle; Ideal Construction and Repair, 2911 Bond St., Everett. ELECTRICAL: Carlson-Collingwood, Inc., 8945 Aurora Ave., Seattle; McInnis Electric, 221 State, Marysville.

Additional planholders—GENERAL: Norge Construction Co., 5088 Admiral Way, Seattle; Frank Damson, Box 725, Everett. ELECTRICAL: Maier Electric Co., 2008 Hewitt, Everett; Rodgers Electric Co., 2805 Hoyt, Everett. PD 10-14. Previous report 10-11

MOTEL— Omak, Wash.

Plans announced by Harry and H. C. Fischnaller, owners, for an addition of 10 or 12 units to the existing motel at Omak and a 16'x36' heated swimming pool. Early spring construction is planned. MH 10-15

SCHOOL REMODELING— Puyallup, Wash.
(Estimated cost $825,000)

If voters at the November election approve a $600,000 bond issue for Puyallup School District No. 3 (P. B. Hanawalt, superintendent) 603 W. Main St., Puyallup, plans will go ahead on remodeling all of the elementary schools in the district. Architect for the extensive remodeling program is Robert Billsbrough Price, 2907 A St., Tacoma.

The school district will call for bids in the Spring if the election is successful.
DM 10-10. Previous report 9-6

● BANK BUILDING— Raymond, Wash.

Bids will be received until October 22 by Federal Savings and Loan, Raymond, for construction of a new building on a site located on the corner of 4th and Commercial in Raymond. Plans obtainable from Benjamin F. Spoor, engineer, South Bend. $25 deposit.

Brick and block masonry with reinforced concrete girders; aluminum windows. DC 10-11

● BRICK STACK IMPROVEMENTS— Richland, Wash.

Bids to be opened October 20 by Atomic Energy Commission, Hanford Operations Office, Box 550, Richland, for miscellaneous improvements to the brick stack of the powerhouse building in the 300 Area at Hanford Works. Work will involve removing a section of existing breaching and installing a fly ash separator and hopper; installing discharge valve and piping; installing inspection walkway; installing false bottom complete with dumping winch; miscellaneous painting. DM 10-14

PHONE RELAY CENTER— Ritzville, Wash.

Pacific Telephone Co. have purchased three acres on a site 11 mi. southeast of Ritzville as location for a 250' tower and building for housing one of five relay stations that will span Washington, according to Stan Murray, company manager at Ritzville. MH 10-8

45-UNIT APARTMENT— Seattle, Wash.

Construction is underway by Island Construction Co., owner-contractor, 1103 N. 36th, Seattle, on the three-story frame, 45-unit Lakeview Lanai apartment building at 1600 43rd Ave. N., Seattle, on the shore of Lake Washington. Plans by Detlie & Peck, architects, Securities Bldg., Seattle. Building will extend partially over the lake, supported on piling which is a composite of wood (lower part) and steel filled with concrete (upper part).

Reinforced concrete slab-on-grade; flat built-up roof, 3" batt insulation in roof; brick veneer, cedar siding exterior; drywall ⅝" partitions; sub-floor of plywood; hardwood flooring, carpeting, linoleum (kitchen), ceramic (bathroom) flooring; ceramic tile counter tops, wainscoting, shower stalls in bathroom; laminated counter tops (kitchen); hardwood cabinets; gas-fired central hot water heating system, basement convectors; 35-car capacity parking area, in attached garage, and on roof of garage. PD 10-14

CHURCH WING ADDITION—Seattle, Wash.

Preliminary drawings are underway by Alfred F. Simonson, architect, 11728 Aurora Ave., Seattle, for a wing addition to existing church at 183rd and 8th Ave. N.W., in Richmond Beach area, for First Lutheran Church. Plans include integrating existing structure with new wing, which will contain a 450-person capacity sanctuary, chancel and narthex, new offices. PD 10-14

MEDICAL CENTER— Seattle, Wash.

Bids will be called later this fall by Tallman, Inc., owners, for construction of the two-level, 9,000 sq. ft. Tallman Avenue Medical Center, 5341 Tallman Ave., across from Ballard General Hospital, Seattle. Working drawings are near completion by Ted LaCourse, architect, 1826 Broadway, Seattle. Plans include nine medical suites, X-ray and laboratory facilities, and a pharmacy.

Structural steel, wood frame; concrete foundation; porcelain enamel steel spandrels, wood siding, cement plaster exterior; flat built-up roof, Perma-ply; batt type insulation in roof; aluminum sash; one-hour fire-resistant partitions; vinyl tile flooring; carpeting in conference rooms; ceramic tile flooring and wainscoting in rest room area; individually metered, air-cooled reverse cycle heat pump; fully air-conditioned; 50-car capacity asphaltic concrete parking area, including covered parking for about 14 cars. PD 10-3. Previous report 8-26

●■ APARTMENT— Seattle, Wash.

Bids from a select list of bidders will be received until 5 p.m., October 20, by Marie Baines, owner, in office of McCool, Morgan & Associates, architects, 110 Eastlake Ave., Seattle, for construction of a 12-unit, three-story, partial basement, 13,500 sq. ft. apartment building in 500 block on Belmont N., Seattle. Structural engineer: Bruce Olsen, 1411 Fourth Avenue Bldg., Seattle.

Planholders: E. T. Hinrichs, 418 Lloyd Bldg.; C. Robert Suess, 3412 E. 115th; Drummond & Lane, Box 77, Mercer Island; Strand, Inc., 1801 N. 34th; Steinman Construction Co., 120 W. 195th. Of Seattle except as noted.

Wood frame; brick anodized aluminum paneling exterior; flat built-up roof, batt insulation in roof; aluminum sash; drywall partitions; vinyl tile, ceramic tile, carpeting; sliding aluminum access doors; birch cabinets; Formica counter tops; wood electric baseboard heating; covered deck for seven cars, exterior cement concrete parking area for additional seven cars; wood view decks. PD 10-10. Previous report 7-9

● MAINTENANCE, TRANSPORTATION CENTER— Seattle, Wash.

Bids will be opened 8 p.m., October 28, by Highline School District No. 401, Horace A. Trimble, secretary to the Board of Directors, 253 S. 152nd St., for construction of approximately 11,000 sq. ft. of new buildings to house a wood shop, maintenance shop and garage-repair shop on a ten-acre site at 8th Ave. S. and Des Moines Way.

Plans include removal of some of districts' existing maintenance facilities to the new site; moving a 40'x172' Butler building from its existing site to above location, and re-erecting it on new foundations; moving gasoline storage tanks, pumps, miscellaneous equipment to this location; moving one large hoist to new new building and installing it, and installing a new smaller hoist. Contract represents initial unit of an overall plan for the center.

Plans and specifications with Steinhart, Theriault & Anderson, architects, 1264 Eastlake Ave., Seattle. Separate contracts for general, mechanical and electrical work. $25 deposit on general, $15 deposit each for mechanical and electrical work. Certified check, cashier's check, bid bond, 5%.

Concrete slab-on-grade; pumice block exterior; glued laminated beams; wood decking; built-up roof. PC 10-16

BUILDING ADDITION— Seattle, Wash.

Construction will be started October 14 by Wayne Construction Co., Inc., 242 22nd Ave. W., Seattle, on an 8,000 sq. ft., one-story addition to an existing office building at 3810 Stone Way, Seattle, for Allan Corp., owner.

Plans by Wisbeck & Konzen, architects and engineers, 564 Broad, Seattle, call for one-story, 8,000 sq. ft., steel roof deck, steel beams, flat built-up roofing with 1" rigid insulation, pumice block walls, concrete floor in manufacturing area, aluminum sash, acoustical tile, gas space heaters, rolling steel overhead doors, plastic skylights in existing structure.
PD 10-10. Previous report 9-17

▲ OFFICE BUILDING ADDITION— Seattle, Wash.

Following is complete list of basic bids received by Pilgrim Press (Benson Office Bldg.) at October 8 bid opening, for addition to the above building, 327 Minor Ave. N., Seattle. Plans by Grant, Copeland & Chervenak, architects, 420 E. Howell, Seattle. LOW BID: Merle P. Songstad, Ditty Bldg., Bellevue, $26,985. OTHER BIDS: G. A. Long, 3827 134th N.E., Redmond, $27,575; Olav Boen and Ed Brehm, joint venture, 9406 N.E. 32nd, Bellevue, $27,978; Dale M. Madden Construction Co., 3010 E. 163rd, Seattle, $29,613; C B S Construction Co., 11115 7th N.W., Seattle, $30,181; W. G. Clark, 408 Aurora Ave., Seattle, $30,710.
PD 10-10. Previous report 10-9

RETIREMENT HOME— Seattle, Wash.

Preliminary drawings are nearing completion by John Graham & Co., architects, 1426 Fifth Avenue Bldg., Seattle, for a 10-story retirement home to be constructed on a two-acre old Kinnear site at the foot of Queen Anne Hill, for First Methodist Church, Dr. Cyrus E. Albertson, pastor. A parking area is included in plans.
PD 10-10. Previous report 5-31

★ MEDICAL OFFICE BUILDING— Seattle, Wash.

Award to Wick Construction Co., 720 N. 35th, no figure released, by Even More Co., Inc., owners, for construction of a 23,000 sq. ft. four-level medical office building at Minor and Cherry streets, Seattle. Plans by Arnold G. Gangnes, architect, 718 Seaboard Bldg., Seattle. CA 10-10. Previous report 9-24

■ CATHEDRAL ALTERATIONS AND ADDITIONS— Seattle, Wash.

Additional planholders announced for alterations and construction of a two-story, semi-circular reinforced concrete addition to west end of existing cathedral, 1531 10th N., Seattle, for St. Mark's Episcopal Ca-

thedral, Dean Leffler, vicar. Bids from a select list of bidders will be received until 2:30 p.m., October 28, in office of Young, Richardson & Carleton, architects, Central Bldg., Seattle.

Additional planholders: Lease Co., Inc., 1201 N. 35th; W. G. Clark, 408 Aurora; Howard S. Wright, Box 3764. Of Seattle. PD 10-11. Previous report 10-9

●PARTITIONS, CEILING, FLOORING— Seattle, Wash.

Bids to be opened 3 p.m., P.S.T., October 29, by General Services Administration, public buildings service, 909 1st Ave., Seattle, for repairs in the Food and Drug Laboratory located in the Federal Office Bldg., 909 1st Ave., Seattle; SEA-1067. Plans with above office. Completion time 90 calendar days.

Work involves removal of existing partitions, flooring, laboratory equipment and installation of new partitions, doors, ceiling, flooring, lighting; and painting and perform other work in six rooms. DM 10-11

■MANUFACTURING PLANT— Seattle, Wash.

Additional planholders announced for construction of a one-story, 7,500 sq. ft. glass manufacturing plant at River St. and Maynard St., Seattle. Bids will be opened 3 p.m., October 24, by Penberthy Instrument Co., Inc., 3201 6th S., Seattle, in the office of Ibsen A. Nelsen and Russell B. Sabin, architects, 1314 E. 43rd, Seattle.

Planholders: Baugh Construction Co., 922 Poplar Place; Hugh S. Ferguson Co., 1927 1st S.; Riley Pleas, Inc., 522 19th N.; Strand, Inc., 1801 N. 34th; Farwest Constrution Co., 908 W. 44th; C B S Construction Co., 11115 7th N.W. Of Seattle.

Additional planholders: Wick Construction Co., 720 N. 35th, Seattle; Puget Construction Co., Inc., 1811 Bush Place, Seattle; Vaux Construction Co., 127 State St., Kirkland. PD 10-15. Previous report 10-10

●STORE ALTERATIONS— Spokane, Wash.

Bids will be opened 2 p.m., October 21, in the office of Whitehouse, Price, DeNeff & Deeble, architects, Hutton Bldg., Spokane, on alterations to the Mohawk Bldg. and to the store of George R. Dodson Co., Inc., W. 517 Riverside, Spokane. DC 10-14

SHOPPING CENTER— Spokane, Wash.
(Estimated cost $3,500,000)

Rezoning opponents have delayed plans for a proposed South Hill shopping center on a 37-acre tract at 29th and Perry in Spokane. E. D. McCarthy & Associates, W. 720 Boone, Spokane, are developing the project. No immediate decision is expected. DC 10-10

●ROOFING— Spokane, Wash.

Bids to be opened 2 p.m., P.S.T., October 28, by 13th Naval District, Bureau of Yards and Docks, Bldg. 250, U.S. Naval Station, Seattle, for covering an existing asphalt shingled roof with corrugated aluminum sheets on the gun shed at U.S. Naval and Marine Corps reserve training center in Spokane; Spec. 18403/58. Plans with Seattle office. DM 10-15

●HUTS— Sun Lakes State Park, Wash.

Bids to be opened 2 p.m., October 21, by State Parks and Recreation Commission, Port Dock Bldg., Olympia, for construction of four 17'x21' concrete block and wood squad huts at Camp Delaney Group Camp in Sun Lakes State Park in Grant County. Plans with above Olympia office and with Ross Nelson, superintendent of the park, Box 301, Coulee City. DC 10-11

■ELEMENTARY SCHOOL ADDITION— Tacoma, Wash.

Planholders announced for construction of a one-story, 10,962 sq. ft., De Long Elementary School at S. 12th and Moreland Drive in Tacoma. Bids will be opened 3 p.m., October 22, by Tacoma School District No. 10, Box 1356, Tacoma. Plans with McGuire & Muri, architects, 231 Broadway, Tacoma; mechanical engineer, David M. Hopkins, and electrical engineer, Walter S. Gordon, 260 S. 5th, Tacoma.

Planholders — GENERAL: J. F. Graham Co., 1408 S. 141st; Constructors, Inc., 424 Summit; Warter Construction Co., 7829 Pacific; Jardeen Brothers, 1240 S. Sprague; Korsmo Brothers, 5944 Lake Grove S.W.; Dolph Jones, 2213 N. Procter; Kirkebo & Son, 1410 Mountain View; Nelson Construction Co., 2944 S. L.; Claude C. Purvis Co., 5936 Sheridan; Standard Construction Co., 315 E. 25th. MECHANICAL: Howard Chapman, 1940 S. Wilkeson; H. K. Western, Inc., 1714 S. Tacoma Way; Weber Plumbing and Heating, 110 N. Tacoma Ave.; Harold Jewell, 6605 6th Ave. ELECTRICAL: Ault Electric, 4625 N. 11th; Electric Construction, 1650 Center St.; Jardeen Electric, 1232 S. Sprague; Washington Electric, 5235 S. Tacoma Way. All of Tacoma.

Concrete footings, foundation; frame walls; concrete ground slab; wood frame roof; frame partitions; steel windows; mineral wool or glass wool insulation in walls and roof; fluorescent lighting; hot water, oil-fired heating system. Finish construction — red brick exterior walls, plaster interior; metal and wood trim; exposed masonry and plaster on gypsum lath partitions; asphalt and ceramic tile; acoustical, plaster ceiling; wood and steel doors; wood cabinets; corrugated plastic panels, blackboards. CA 10-14. Previous report 10-4

OFFICE, WAREHOUSE— Toppenish, Wash.

Bids will be called soon by Pacific Power & Light Co., Dick Gosney, local manager, 210 W. 1st, Toppenish on construction of a 7,000 sq. ft. building to house line assembly room, enginering office, two-way radio dispatching system, garage and equipment loading dock in Toppenish. A three-acre tract in southwest section of Toppenish at junction of Highways 97 and 3-A, will be developed for the regional service center and warehouse. Plans are being prepared by Don Gochneur and Edward Marble, architects, Miller Bldg., Yakima. This is part of the year's $62,000,000 construction program. MH 10-8. Previous report 9-26

CHURCH— Veradale, Wash.
(Estimated cost $50,000)

Plans are nearing completion by Donald F. Neraas, Davenport Hotel, Spokane, on a church and educational unit for Lutheran Church of the Good Shepherd at Veradale. The structure will be erected on a five-acre tract at 8th and Sullivan street, Veradale. MH 10-8

■HIGH SCHOOL— Walla Walla, Wash.

Planholders announced for construction of the Central Catholic High School at Walla Walla. Bids will be opened 8 p.m., October 21, by Most Rev. Bernard J. Topel, Catholic bishop of Spokane. Plans with Culler, Gale, Martell & Morrie, architects, Realty Bldg., Spokane.

Planholders—GENERAL: H. Halvorson, Inc., Box 6, Yardley; A. Ritchie, 2102 Melrose, Walla Walla; O. D. Keen, 515 N. Bellevue, Walla Walla; Henry E. Gross, 948 Boyer, Walla Walla; Jensen-Rasmussen, Box 89, Sunnyside; Sceva Construction Co., N. 2928 Madelia, Spokane; AAA Construction Co., N. 729, Helena, Mont.; Johnson-Busboom-Rauh, N. 601 Cedar, Spokane; Selkirk Co., S. 1508 Chestnut, Spokane. MECHANICAL: W. R. O'Rourke, 339 S. 2nd, Walla Walla; J. P. Head, 3rd and Columbia, Pasco; Randolph & Taylor, 419 W. Clark, Pasco; P. S. Cook Co., 507 S.E. 3rd, Pendleton, Ore.; Warren, Little & Lund, W. 120 2nd, Spokane; James Smyth, N. 216 Division, Spokane; Arnold & Jeffers, N. 1309 Ash, Spokane. ELECTRICAL: Electric Smith, 123 E. Sprague, Spokane; Power City Electric, N. 920 Howard, Spokane. PC 10-11. Previous report 10-7

▲PAINT BUILDING— Wenatchee, Wash.

Six bids received ranging from a low of $5,629, Hugh M. Thompson, 224 S. Wenatchee Ave., Wenatchee, to a high of $12,530, were submitted to Washington State Highway Commission, I. B. Munson, district engineer, Wenatchee, for painting the Wenatchee highway district office building in Wenatchee.

2ND LOW: Valley Paint Co., 231 S. Chelan, Wenatchee, $7,188. HI: Springer Paint Co., W. 2104 13th, Spokane, $12,530. CA 10-14. Previous report 9-25

PULP PLANT ADDITION— Wenatchee, Wash.
(Estimated cost $500,000)

Pacific Pulp Moulding Co., Welch Station, Wenatchee, is planning an expansion program for its present plant just outside Wenatchee along the Chelan Highway. Plans are being prepared for a 100'x240' addition. Another addition will be built the following year. Plant manager is Jack Rose, N.E. 29th E., Wenatchee. MH 10-15

FRUIT COMPANY (Fire)— Yakima, Wash.
(Estimated loss $500,000)

A fire destroyed the Rainier Fruit Company, 412 N. 1st Ave., Yakima. The company will rebuild. IG 10-10

▲OFFICE BUILDING— Yakima, Wash.

Bids received by Jerome Lewis Co., Larsen Bldg., Yakima, for construction of a 2,800 sq. ft. office building on 11th and W. Yakima avenues in Yakima. Plans with Cowan & Paddock, A.I.A., Larsen Bldg., Yakima. Bids opened October 7. LOW—GENERAL: Hugh Templeton, Box 163, $25,104. MECHANICAL: Thompson Plumbing and Heating, 105 N. 5th Ave., $6,107. ELECTRICAL: Creamer Electric, 1902 Nob Hill Blvd., $3,047.

Other bids on GENERAL: Hills Construction Co., 102 S. 5th Ave., $25,700; Jake Leingang, 18 Kenny Drive, $25,889; W. W. Nettleship, 507 S. 5th Ave., $26,645; Gilbert H. Moen, 516 S. 5th Ave., $26,785; Al Kokeng, 621 S. 36th Ave., $26,902; W. M. Yeaman, 601 S. 1st St., $28,165; H. E. Martin, Sunnyside, $24,487; V. K. Powell, Wapato, $30,017. Of Yakima except as noted.
IG 10-10. Previous report 10-7

▲RESIDENCE— Yakima, Wash.

Four bids were received October 8 on construction of wood frame residence on S. 22nd Ave., Yakima, for Dr. Thomas J. Mathieu, of 3508 Nobb Hill Blvd., Yakima. BIDS: Harold Corpman, 1106 S. 14th, $57,486; Wallingford & Shelton, 205 S. 67th, $59,153; Hugh Templeton, Box 163, $65,885; W. J. Park & Son, 4403 Summitview, $69,006. All of Yakima. Plans by Doudna-Williams & Phipps, architects, Miller Bldg., Yakima.
IG 10-11. Previous report 9-5

■SUPERMARKET— Yakima, Wash.

Planholders announced on construction of 125'x120' supermarket at Broadway and Lenox Ave., Yakima. Bids will be opened 10 a.m., October 20 by Cascade Realty Co., owner, 411 S. 3rd Ave., in the office of the architect, Champ Sanford, 802 S. 5th Ave., Yakima. Plans with architect. Structural engineer is Peter Hostmark, Lloyd Bldg., Seattle.

Planholders — GENERAL: Gilbert H. Moen, 516 S. 5th, Yakima; Hills' Construction Co., 102 S. 5th, Yakima; Sceva Construction Co., N. 2928 Madelia, Spokane; W. M. Yeaman, 601 S. 1st, Yakima; W. J. Park & Son, 4403 Summitview, Yakima; Harold Sanford, 418 S. 23rd, Yakima; Harold Corpman, 1106 S. 14th, Yakima; Paul Cook, 307 Crescent Drive, Yakima; Wallingford & Shelton, 205 S. 67th, Yakima; Jake Leingang, 18 Kenny Drive, Yakima; E. A. Curtis, Prosser.

MECHANICAL: Central Plumbing and Heating Co., 510 S. 1st, Yakima; Buren Sheet Metal Works, 501 W. Washington, Yakima; Lentz-Interstate Plumbing and Heating, 12 S. 3rd, Yakima; Lee Thompson, 105 N. 5th, Yakima; Dopps & Banks, 603 W. Lenox, Yakima.

ELECTRICAL: Creamer Electric, 1902 Nob Hill Blvd., Yakima; Edward's Electric, 803½ W. Yakima, Yakima; Smith-Wilson, Union Gap; Knobel's Electric, 412 Glenside Drive, Yakima; Perry Arb Plumbing and Heating, 5609 Summitview, Yakima.
IG 10-15. Previous report 10-2

▲SCHOOL ADDITIONS— Yelm, Wash.

Two bids were opened by Yelm School District No. 2, Yelm, on October 8, for construction of a one-story, 3,000 sq. ft., concrete block shed addition (enclosed on three sides) at McKenna Elementary School; a shower room addition with ceramic tile floors at the gym; classroom addition at the high school in Yelm. BIDS: Archie

Ferguson, Yelm, $15,249; Oscar Morken, Yelm, $15,550. Architect is John Austin & Associates, 8810 Bridgeport Way S.W., Tacoma. DM 10-11. Previous report 8-22

IDAHO

LUMBER PLANT— Boise, Idaho

Construction will start soon by Northwest Lumber Co., Boise, owners, for a lumber processing plant to be located on property of Weatherby Lumber Co. at Cole and Franklin roads. GH 10-10

MENTAL HEALTH CENTER— Boise, Idaho
(Estimated cost $200,000)

Preliminary plans are underway by Nat J. Adams, architect, Idaho Bldg., Boise, for construction of a new building to house the county mental health center and juvenile detention home. Bids will be called by Ada County Board of Commissioners, Boise. A bond election will be held to raise funds. GH 10-10

● EMPLOYMENT SECURITY AGENCY BUILDING— Coeur d'Alene, Idaho
(Estimated cost $60,000)

Bids to be received until 2 p.m., M.S.T., October 30, by Arthur Warren, state commissioner of public works, 432 Capitol Bldg., Boise, for construction of a 3,000 sq. ft., 40'x80', one-story masonry building to house Employment Security Agency, on the southeast corner of the intersection of 4th and Garden in Coeur d'Alene. Plans obtainable from Ernest M. Hicks, architect, 316 Elder Bldg., Coeur d'Alene.

Plans call for glued laminated beams, wood joists; SCR brick; built-up roofing; vinyl asbestos tile over wood or cement flooring; hot water heating system. DM 10-14. Previous report 9-26

● OFFICE BUILDING—Coeur d'Alene, Idaho

Bid opening has been postponed from September 17 to an indefinite date by Medical Clinic, Inc., Coeur d'Alene (Dr. E. R. W. Fox, Wigget Bldg., Dr. William T. Wood, 118 7th, and Dr. W. W. Wilson, Wigget Bldg.), for an L-shaped, 79'x161' professional office building on Mullan Street between 11th and 12th streets in Coeur d'Alene. Plans by McClure & Adkison, 707 Sherwood Bldg., Spokane.

Plans call for one floor and basement; stucco and structural glazed tile; glued laminated beams; vinyl flooring; hot water heating with natural gas. GH 10-10. Previous report 10-8

★ARMORY— Gooding, Idaho

Award to Bishop Construction Co., 7421 Weston Drive, Boise, $97,157, by Arthur Warren, Commissioner of Public Works, 432 Capitol Bldg., Boise, for construction of concrete and frame National Guard Armory at Gooding.

Concrete footings and foundation; 104'x 110'; concrete slab floors; timber girders, beams, columns; some glued laminated joists; flat roof; frame, some block partitions; steel sash; painted exterior and interior wall finish; wood trim; exposed masonry, drywall partitions; asphalt tile, ceramic tile flooring; drywall acoustical ceiling; wood and steel doors; wood cabinets; blackboards; blanket insulation in ceiling; incandescent and fluorescent lighting, exit lights; oil-fired boiler. DM 10-15. Previous report 9-20

★WAREHOUSE— Grangeville, Idaho

Award to Morrell Construction Co., 2747 Main, Lewiston, $90,000, by directors of Union Warehouse and Supply Cooperative, Grangeville (Warren Parks, manager), for rebuilding the grain storage warehouse at Fenn that was recently destroyed by fire. MH 10-11. Previous report 10-7

HOSPITAL ADDITION— Lewiston, Idaho
(Estimated cost $100,000)

Preliminary plans are underway by Hugh Richardson, architect, 415 Weisgerber Bldg., Lewiston, for an addition to the southwest wing of the St. Joseph's Hospital, 4th Ave. and 5th, Lewiston. Bids will be opened by St. Joseph's Hospital Community Foundation, John Ernsdorff, business manager, Lewiston. GH 10-10

★SCHOOL ADDITION, GYMNASIUM— Melba, Idaho

Award to L. H. Krieger, Box 26, Nampa, $166,649, by Joint Class B School District No. 136, Melba, for construction of a six-room elementary school and high school gymnasium in Melba. Plans by Charles W. Johnston, architect, and Robert J. Smith, associate, 13 N. 8th, Payette.

Other bidders at the October 7 bid opening were: David G. Dorsey, 312 N. 5th, Caldwell, $167,593; Welsh Bros. Construction Co., Inc., 920 Broadway, Boise, $170,996; G & M Construction Co., Box 1276, Boise, $171,500; R. E. Rice Construction Co., 4602 State, Boise, $173,035; Watkins Construction Co., Box 1786, Boise, $176,708. DC 10-11. Previous report 9-27

▲TELEPHONE EQUIPMENT ROOMS— Moscow, Idaho

Five firms submitted proposals to D. R. Theophilus, president, University of Idaho, Administration Bldg., Moscow, on October 7, for construction of telephone equipment rooms in the University library, campus, Moscow. Plans prepared by Whitehouse, Price & DeNeff, architects, Hutton Bldg., Spokane.

BASIC BIDS: John E. Thomas, 408 N. Hayes, Moscow, $4,735; Dunham Bros., Box 42, Moscow, $5,969; Hansen & Parr Construction Co., 315 W. Boone, Spokane, Wash., $6,500, and Johnson-Busboom-Rauh, N. 601 Cedar, Spokane, $6,500, submitted identical bids; Commercial Builders, Inc., 301 College, Moscow, $7,472. DM 10-14. Previous report 9-27

CHURCH— Sand Point, Idaho

Preliminary drawings are underway by Oliver Olson, architect, 2437 Market St., Seattle, for a one-level and partial basement, three-unit church plant for First Lutheran Church in Sand Point. PD 10-15

● ROOFING, PAINTING— Wallace, Idaho

Bids to be opened 3 p.m., P.S.T., October 31, by General Services Administration, 909 1st Ave., Seattle, Wash., for replacing roof, painting and miscellaneous work at the U.S. Post Office, Cedar and 4th, Wallace; SEA-1202. Plans with Seattle office. Bid guarantee 2%. Completion time 90 calendar days.

Existing composition roofing and appurtenances down to the wood roof deck will be removed and replaced with new five-ply composition roofing including new plastic base flashings. Other items of work involve replacement of door hinges, handrails, marquee facia board; cleaning hot water storage tank; miscellaneous painting and other work. DM 10-14

MONTANA

▲CHAPEL— Galen, Mont.

Six bids received for construction of a 90-capacity, non-denominational chapel to be located about 60' east of the main building at the State Tuberculosis Sanitarium at Galen. Plans by O. Berg, Jr., & Associates, architect, Bozeman. LOW BIDS: Cahill-Mooney Construction Co., 220 E. Front, Butte, $23,571 (basic bid), $5,479 (alternate No. 1); Gordon Construction Co., Box 319, Missoula, $29,750, $6,000; Leo Smith Construction Co., Box 1018, Anaconda, $36,243, $7,593. CA 10-10. Previous report 10-3

▲PAINTING POST OFFICE— Glendive, Mont.

Three bids ranging from a low of $1,711 by Rocky Mountain Painting Co., Salt Lake City, Utah, to a high of $3,716, were submitted to General Services Administration, 909 1st Ave., Seattle, Wash., for painting exterior and interior of U.S. Post Office, Kendrick Ave. and Benham St., Glendive, Mont.; SEA-1209. Bids opened October 7. 2ND LOW: John Groll, 512 E. Towne, Glendive, $2,582. HI: H. L. Grohne, Decatur, Ill., $3,716. PD 10-10. Previous report 9-22

■ HIGH SCHOOL, ELEMENTARY SCHOOL ADDITIONS—Hardin, Crow Agency, Mont.

Planholders announced on construction of a one-story, six-classroom addition to Hardin Elementary School; and one-story, three-classroom addition to Crow Agency Elementary School; a 41,000 sq. ft. one-story high school at Hardin. Bids to be opened 8 p.m., October 21, by Big Horn County School District No. 17-H in office of superintendent, 121 W. 3rd, Hardin. Architects are Cushman & Terrell & Associates, 1323 Airport Road, Billings. Separate bids for the two elementary schools and the new high school, or a combination bid to include all three schools.

Planholders—GENERAL: Husman Bros., Sheridan, Wyo.; Joseph L. Fletcher, Sheridan, Wyo.; Boespflug Construction Co., 502 N. 25th, Billings; Pederson Construction Co., 2925 Ronan Drive, Billings; Frates Construction Co., 424 Rimrock Road, Billings; Lowe Construction Co., 2325 9th N., Billings; Cop Construction Co., 617 Central Ave., Billings; Pogue Construction Co., 117 S. Billings Blvd., Billings; Bailey Construction Co., 2964 Harrow Drive, Billings. MECHANICAL: Midland Plumbing and Heating, 2121 4th N., Billings; Wagner's Plumbing and Heating, 1001 Central Ave., Billings; Christensen Plumbing and Heating, 3615 Montana Ave., Billings; Industrial Plumbing and Heating, 2503 Grand Ave., Billings; Carl's Sheet Metal and Plumbing, Forsyth. ELECTRICAL: Empire Electric, 2412 4th N., Billings; Yellowstone Plumbing and Heating, 520 N. 32nd, Billings; Sterling Electric, 1231 Central Ave., Billings; Curley-Naylor Electric, 123 N. 16th, Billings; Mike's Electric, Sheridan, Wyo. EE 10-15. Previous report 10-7

●INSTALL PARTITIONS, PLUMBING— Kalispell, Mont.

Bids will be opened 3 p.m., P.S.T., October 28, by General Services Administration, 909 1st Ave., Seattle, Wash., instead of October 26 as previously reported (PCD 10-9) for installing relite partitions and performing plumbing and electrical work in Room 241 of U.S. Post Office at Kalispell, Mont.; Proj No. SEA-1157. PD 10-15. Previous report 10-9

▲PAINTING— Miles City, Mont.

Low bid submitted by Rocky Mountain Painting Co., Salt Lake City, Utah, $2,623, to General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, Wash., for exterior and interior painting to the U.S. Post Office, 7th and Pleasant, Miles City; SEA-1211. Bids opened October 7. OTHER BID: H. L. Grohne, Decatur, Ill., $6,407. PD 10-10. Previous report 9-24

GRADE AND HIGH SCHOOL—Noxon, Mont.

Architects Taylor, Thon, Schwartz & Kirkpatrick, Ford Block, Kalispell, have been retained by board of trustees of Noxon School District, Noxon, to prepare plans for a new elementary and high school in Noxon.

The board has made application to Housing and Home Finance Agency for funds to assist in financing the preliminary work. DC 10-10

HIGH SCHOOL— Plevna, Mont.
(Estimated cost $180,000)

Plans will be completed December 1 by Drake & Gustafson, architects, Empire Bldg., Billings, for a one-story, 13,000 sq. ft., masonry, high school building for Fallon County School District No. 55 in Plevna. Bids will be called by the school district soon after. The architects are preparing architectural, structural, mechanical and electrical plans.

Structural components—Concrete footings and foundation; poured concrete and block walls; concrete slab floors; concrete girders; flat roof; masonry and frame partitions; aluminum windows; rigid insulation in masonry walls and roof; fluorescent lighting; hot water heating system, coal-fired; heating and ventilating units.

Finish construction—Natural block with wood trim on walls; exposed masonry, dry-

wall and plywood partitions; asphalt tile flooring; drywall ceiling; wood doors and cabinets; folding doors; blackboards.
DM 10-10. Previous report 9-10

ALASKA

WESTCHESTER URBAN RENEWAL— Anchorage, Alaska
(Estimated cost $1,200,000)

Plans are in the final stage on the Westchester Urban Renewal Project in Anchorage; Proj. T.A.R.-8. Planning is under direction of Alaska Housing Authority, 11th and I streets, Anchorage, for the city and individual property owners.

Approximately 36 acres will be redeveloped for residential uses with an area set aside for a park. Location is between 16th Ave. and Chester Creek on both sides of Spenard Road bounded by H St. and the Anchorage High School. Construction estimates will be available in January or February of 1959. AL 10-8

RESIDENCES, UTILITIES— Anchorage, Alaska
(Estimated cost $750,000)

Acquisition program has started and it is hoped that the Alaska Housing Authority, 11th and I streets, Anchorage, can start selling land for private re-use and/or individual development beginning around March 15, 1959, in preparation for an urban renewal project on the east side of Government Hill in Anchorage; Proj. T.A.R.-3.

It is proposed that existing quonsets will be replaced with about 70 new homes, costing from $15,000 to $30,000 each, on the east end of the hill. Street and utility improvements are also planned. The Alaska Housing Authority will act as redevelopment agency for the city and individual property owners.

Cost estimates on improvements contemplated in conjunction with the urban renewal include the following: $290,000 for paving streets, constructing sidewalks, curbs, gutters; $50,000 for storm sewers; $4,300 for sanitary sewers; $12,000 for water lines; $8,000 for street lights; $16,000 for electrical distribution; $14,800, telephone lines and facilities; $25,000, new park.
AL 10-8. Previous report 4-18

SCHOOL— Bethel, Alaska

Bids will not be opened in January of 1959 as previously announced, on construction of a one-story, no basement, 20,000 sq. ft. L-shaped school building at Bethel. Plans are being prepared by Linn A. Forest, architect, 622 Hemlock Way, Juneau.

As the structure will be a territorial school, part of its cost will be paid by Commission of Education. However, bids will be opened by Alaska Public Works, Juneau. Plans are not in working drawing stage, so it will be late January or February or even March before bids are called.
JU 10-10. Previous report 10-4

■ **OFFICE MODIFICATION— Elmendorf AFB, Alaska**

Planholders announced on conversion of an existing barracks and heating plant into office space at Elmendorf Air Force Base; ENG-95-507-59-2. Bids will be opened 2 p.m., A.S.T., October 28, by Corps of Engineers, Box 7002, Anchorage.

Planholders: J. B. Warrack Co., 500 2nd W., Seattle, Wash.; C & R Builders, Inc., 1619 8th N., Seattle; Lease Co., 1501 N. 35th, Seattle; Eiford Co., 1750 State, Bellingham; Chris Berg, Inc., 2730 Westlake N., Seattle; Holaday & Edworthy, Inc., 6240 S. Tacoma Way, Tacoma; Patti-MacDonald Construction Co., 1100 5th, Seattle; Raber & Kief, Inc., 5939 4th S., Seattle.

Barclay Dean Co., 518 1st N., Seattle; Jan-Pacific Co., 1718 Broadway, Seattle; F. T. Crowe & Co., 329 2nd W., Seattle; Fairbanks, Morse & Co., 668 Lane, Seattle; Graybar Electric Co., Box 3127, Seattle; Thorgaard Plumbing and Heating, 1409 N. 36th, Seattle; Holert Electric Co., 2300 W. Spokane, Seattle; The Brower Co., 114 Virginia, Seattle; American Plumbing Co., 1908 Pacific, Tacoma; Lent's, Inc., 279 4th, Bremerton.

W. R. Grasle Co., 437 N.W. 16th, Portland; Cascade Distributors, 1918 1st S., Seattle; Northern Enterprises, Inc., 12556 Bothell Way, Seattle; The Tide Co., 1512 Center, Tacoma; Northern Commercial, Box 3562, Seattle; Refrigeration Engineering Co., 1718 Broadway, Seattle; Piston Service, Inc., 905 E. Union, Seattle; P-W Industries, Inc., Duncan and Melrose, Philadelphia, Pa.; Salmon Bay Electric, 4728 Ballard, Seattle; General Electric Co., 710 2nd, Seattle; Manson Emanuels Co., 908-A Elliott Ave. W., Seattle.

Century Metal Works, 7126 W. Marginal Way, Seattle; Alaskan Plumbing and Supply Co., 907 Arctic Bldg., Seattle; Hart Plumbing and Heating, Inc., 11555 27th N.E., Seattle; DuBois Engineering and Manufacturing Co., 2600 Block 169th St., Hammond, Ind.; City Electric of Anchorage, 2921 13th S.W., Seattle; Federal Pacific Electric Co., 1415 Elliott W., Seattle; H. E. Mills Electric, 1511 Cornwall, Bellingham; Yukon Equipment Co., 327 Colman Bldg., Seattle; Northwest Builders Hardware, Inc., 1120 W. Ewing, Seattle; J. A. Tudor & Associates, 2605 Western Ave., Seattle.
DM 10-14. Previous report 10-3

●**PAINTING, FLOORING— Elmendorf AFB, Alaska**

Bids to be opened 3 p.m., November 3 by base procurement office, Bldg. T22-057, Elmendorf Air Force Base, Anchorage, for cleaning, painting, decorating and floor finishing in 220 family apartments at the base; IFB-65-501-59-44. Plans with above office. AL 10-15

●**ELECTRICAL WIRING— Fort Richardson, Alaska**

Bids to be opened 2 p.m., October 24 by purchasing and contracting officer, U.S. Army Supply and Maintenance Center, Room 112, Bldg., 977, Fort Richardson, for installation of electric wiring at the curling rink in Fort Richardson, IFB-ASK-95-508-59-11. Plans with above office. AL 10-15

ELEMENTARY SCHOOL— Fort Richardson, Alaska

Working drawings are under way by Manley & Mayer, architects, Loussac-Sogn Bldg., Anchorage, on an elementary school at Fort Richardson; Proj. AAA-59-C-FED-A-9. Construction will be under jurisdiction of Housing and Home Finance Agency (John Nichols, acting territorial representative, Anchorage).

Eleven classrooms; multipurpose room with kitchen; storage unit, dressing rooms, offices, teachers' room, toilets, service unit, transformer vault, storage area. AL 10-15

URBAN RENEWAL— Ketchikan, Alaska
(Estimated cost $2,300,000)

Engineer will be retained soon by City Council, City Hall, Ketchikan, to survey a proposed urban renewal project in Ketchikan Creek adjacent to downtown section of Ketchikan; Proj. No. T.A.R.-2. Planning is under direction of urban Reneral Planning Director Victor Fischer, Alaska Housing Authority, 11th and I streets, Anchorage.

No major public works are included in this renewal project, but substantial earthmoving, building of retaining walls, filling, and construction of large municipal parking lot, as well as private commercial development, will be involved. It is hoped that work can start late in 1959. AL 10-7

▲**SCHOOL ADDITION— North Pole, Alaska**

Award is still pending on construction of an addition to the school at North, Pole, Alaska on which bids were opened September 29. Of the seven bids submitted, the low was $53,400 (base), $2,001 (deductive alt.) by Arctic Builders, Box 305, Fairbanks. Second low was Consolidated Construction Co., Box 1574, Fairbanks, $54,351, $2,061. Hi bid was $73,500, $3,000. Plans prepared by McEntire & White, architects, 201 Chena Bldg., Fairbanks. AL 10-11. Previous report 9-27

SCHOOL ADDITION— Palmer, Alaska

Plans are waiting final approval of Housing and Home Finance Agency, (John Nichols, acting territorial representative, Anchorage), on an addition to the Swanson School in Palmer for Palmer School District; Proj. No. AAA-58-C-4A-8. Drawings and specifications were prepared by Edwin Crittenden & Associates, architects, 845 9th, Anchorage.

Addition of six-classrooms, multipurpose room, stage, administrative unit, kitchen, storage space, caretaker's apartment.
AL 10-15

■ **VORTAC FACILITIES (Buildings, Utilities)— Sisters Island, Alaska**

Planholders announced on construction of VORTAC facility consisting of engine-generator building, quarters' building, supplemental facilities, seaplane ramp, disposal of clearing material on Sisters Island, Alaska; Inv. 5-59-30. Bids to be opened 2 p.m., A.S.T., October 30, by Civil Aeronautics Administration, Region 5, Contract and Purchase Section, AN-170-C, Box 440, Anchorage. Plans available in Anchorage office. $20 deposit. Bid guarantee 10%. Completion time 184 calendar days.

Planholders: Allen Electric Co., Box 1523, Anchorage; City Electric, Box 3698, Eastchester Branch, Anchorage; Continental Construction, Inc., 900 E. 9th, Anchorage; Patti-MacDonald Construction Co., Pouch 6, Anchorage; Burgess Construction Co., Box 1410 Fairbanks; Fairbanks Builders, Inc., 1446 Turner, Fairbanks; Nordin Construction Co., Box 1771, Fairbanks; C & R Builders, Inc., 1619 8th N., Seattle, Wash.; Eyak Construction Co., Box 696, Cordova; Western Equipment and Supply Co., Box 1456, Kodiak; Modern Electric Co., Box 4515, Spenard; Chisum & Langlais, Box 1, Kenai.

Sched. 1—(a) 490 c.y. excavation; 100 c.y. rock excavation; 6,850 c.y. borrow excavation; 36'x36' concrete block equipment building with concrete foundation and floor slab plus utilities. (b) antenna system; concrete support for antenna; 16' support shelter; field detector support; 24 ground check supports; conduit, cable, other electrical installations and related work. (c) frame living quarters including utilities; 14,000 gal. wood stave water storage tank with supply lines; 1,000 gal. fuel storage underground tank; septic tank; 100' of 4" sewer pipe; 102' effluent line; 200' of 600 volt underground electric service cable; 50' electric service to VHR Bldg. (d) 30'x62' prefabricated metal engine-generator building on concrete foundation plus utilities; 515 gal. fuel storage tanks; 3,000 gal. steel water storage tank; two, engine generators in powerhouse; three, transformer substations; 2,700' underground power cable; 20,000 gal. fuel storage tank with fuel lines; (e) communication system; 700' underground control cable; 2,510 c.y. borrow excavation; 24' of 11"x18" CMPA for roads and drainage; engine generator in VORTAC Bldg.

Sched. 2—Seaplane Ramp: 150 c.y. rock excavation; 2,500 c.y. common excavation; 1,100 c.y. grading; 232 c.y. reinforced concrete for pavement; 1,430 bbl. cement for grouting base course of ramp; relocate buildings.

Sched. 3—disposal of clearing material.
AL 10-14. Previous report 10-3

▲**SCHOOL BASEMENT REMODELING— Whittier, Alaska**

Five bids ranging from $43,950 by F & W Construction Co., 1042 11th, Anchorage to a high of $56,683, were opened October 9 by Housing and Home Finance Agency, Anchorage, for remodeling basement of Port of Whittier School. Plans by Foss, Olsen & Sands, Box 2331, Juneau.
AL 10-11. Previous report 10-2

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ENGINEERING NEWS

Oregon, Washington, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★SANITARY SEWER— Albany, Ore.

Award to Quilliam Ditching Co., 727 E. 14th Ave., McMinnville, $6,736, by City Council, City Hall, Albany, on construction of about 1,976' of sanitary sewer. Bids opened October 1.

Quantities: 1,470' of 8" concrete sewer pipe; 470' of 8" asbestos-cement sewer pipe; 7 manholes; 36' of 36" concrete pipe.

CA 10-14. Previous report 9-24

★GAS LINE— Albany, Ore.

Award to Harbert Construction Co., Longview, Wash., $25,923, by Northwest Natural Gas Co., (Gasco), 920 S.W. 6th Ave., Portland, for construction of 2½ mi. of gas pipeline in and just east of Albany. Eight bids ranging to a high of $43,784 were received October 8. OTHER LOW BIDS: Salem Sand & Gravel Co., Salem, $26,323; Loy Clark Pipeline Co., Salem, $29,012.

Work includes 9,900' of 8" and 3,800' of 10" pipe. Materials, furnished by owner total $35,000, will start October 13 and be completed by Nov. 14.

WB 10-10. Previous report 10-7

▲UTILITY SYSTEMS Camp Adair, Ore.

A low bid of $64,221 was submitted by Hennen & Von-Willis, 450 Figuera, Eugene, when the 337th Fighter Group, procurement office, Portland International Airport, Portland, opened bids October 9 for construction of utility systems including water, sewer and electrical, to serve 150-unit family housing project, Camp Adair Air Force Base near Corvallis; IFB-35-608-59-7.

WB 10-11. Previous report 9-26

CANALS, DIVERSION DAMS, WASTEWAYS, DRAINS— Camp White, Ore.

Bids will be called in April, 1959 by Bureau of Reclamation on construction of the second sections of the Southfork and Daley Creek collection canals and the Grizzly Creek Canal, Talent Division, Rogue River Basin Project, Ore. As weather conditions may make it difficult to make physical examination of the site at the time of the invitation issuance, the Bureau is inviting prospective bidders to inspect the site of the work in the immediate future. Prospective bidders wishing to visit the site are advised to contact J. A. Callan, Project Construction Engineer, Bureau of Reclamation, Box 386, Camp White, Ore. Reference: Map Drawing No. 415-D-490.

Southfork Collection Canal, Second Section—Construction of about 3.8 mi. of 6' bottom width canal from the diversion dam on South Fork Little Butte Creek to the Beaver Dam Creek Siphon. Structures to be constructed will include two rock-fill type diversion dam structures, two overflow wasteways, a drain inlet, and two road-crossing culverts.

Daley Creek Collection Canal, Second Section—Construction of about 2.6 mi. of canal with bottom width varying from 6' to 4' from the diversion dam on Daley Creek to the Deadwood Creek Siphon. Structures to be constructed will include two rock-fill type diversion dams, three overflow wasteways, a drain inlet, a drop, and three road-crossing culverts.

Grizzly Creek Canal—Construction of about 1.6 mi. of 10' bottom width canal including a gaging station, three road-crossing culverts, three chute drops and two turnouts.

DM 10-14

●ELECTRICAL SERVICE— Corvallis, Ore.

Bids to be opened 2 p.m., P.S.T., November 7, by Oregon State Board of Higher Education, in Administrative Council Room, 106 Commerce Bldg., Oregon State College, Corvallis, for installation of electrical work, Phase 1—Primary Distribution System at the college. Plans obtainable from W. Bruce Morrison, engineer, 918 Cascade Bldg., Portland. $50 deposit. Certified check or bid bond 10%.

Work involves installation of primary electrical service from load center in Weatherford Hall to buildings along and adjacent to Jefferson Way. Distribution cable is to be located on electrical ducts provided in a previously constructed utility tunnel. In general, the electrical ducts for service to the major portion of the buildings have been provided with the tunnel construction. Some revision and modernization of transformer vaults and building services is included. General and mechanical work is negligible and the entire project will be covered by a single bid.

DC 10-15

▲DREDGING— Coos Bay, Ore.

Four bids ranging from a low of $181,755 by Willamette Tug & Barge Co., Foot of N. Portsmouth St., Portland, for a high of $226,800, were submitted to Corps of Engineers, Portland District, 628 Pittock Block, Portland, for approximately 630,000 c.y. dredging the channel in Coos Bay to a depth of 30' at mean lower low water and disposing of all excavated material, in Coos Bay; CIVENG-35-026-59-47. Bids were opened October 9.

OTHER BIDS: Puget Sound Dredging Co., 2929 16th Ave. S.W., Seattle, $204,758; Manson & Osberg, 1132 N. 128th, Seattle, $224,910; General Construction Co., Box 3845, Portland, $226,800. Engineer's estimate, $201,600.

WB 10-10. Preivous report 10-8

▲SANITARY SEWER— Empire, Ore.

Five bids ranging from a low of $11,968 by Tripp Construction Co., Eugene, to a high of $14,631, were submitted to City Council, City Hall, Empire, on construction of a sanitary sewer. 2ND LOW: Fred Stubbert, Springfield, $13,421. 3RD LOW: Sig Andersson, Coos Bay, $13,446.

DC 10-14

RETAINING WALL— Empire, Ore.

Bids rejected by City Council, City Hall; Empire, on construction of reinforced concrete retaining wall at Grant and Commercial in Empire. The low bid at October 7 opening was Johnson Cement Products, Bayshore Drive, Coos Bay, $1,990. A contract may be negotiated at a later date.

DM 10-15. Previous report 9-24

▲MILLRACE PUMPS— Eugene, Ore.

Seven bids were opened by City Council, City Hall, Eugene, on furnishing two pumps and installing one to divert Willamette River Water in the millrace through the University of Oregon campus, Eugene. LOW: Johnston Pump Co., 3272 E. Foothill Blvd., Pasadena, Calif., $4,323 each pump. 2ND LOW: Mi-Van Co., 524 S.E. Main, Portland, $4,640 each. HI: Brod & McClung, 9800 S.E. McBrod Ave., Portland, $7,789 for one, $15,174 for two. Bids opened October 6.

DC 10-11. Previous report 10-4

★WATER WELLS— Fremont National Forest, Ore.

Award to Storey Drilling Co., Prosser, Wash., $1,516, by U.S. Forest Service, Regional Supply Officer, 729 N.E. Oregon St., Portland (Box 4137), for drilling, casing, sealing developing and testing of three water wells at Deadhorse Lake and Campbell Lake campgrounds, about 20 mi. southwest of Paisley in Fremont Natioal Forest, Ore.

WB 10-14. Previous report 10-1

■OFF-SITE UTILITIES— Klamath Falls, Ore.

Planholders announced on providing additional off-site utilities for the Armed Services Housing Project at Kingsley Field, Klamath Falls; Bid No. 59-9. Bids to be opened 11 a.m., October 23, by Harry F. Keating, purchasing and contracting officer, 408th Fighter Group, Kingsley Field.

Planholders: John Kovtynovich, 295 Skyline Loop, Eugene; Phoenix-Matthews Construction Co., Box 484, Klamath Falls; American Pipe and Construction Co., Box 1898, Portland. ZZ 10-14. Previous report 10-9

★GRADING, GRAVELING— Klamath Falls, Ore.

Award by Civil Aeronautics Administration, 5651 West Manchester Ave., Los Angeles, Calif., for grading, ditching, graveling and installing culverts on an existing road, constructing 5'x13' concrete block storm porch addition and 4'x4' wood frame outside chemical toilet building, relocating electric meter box at VHF-UHF A/G Communciation Facilities on Stukel Mountain about six mi. east and eight mi. south of Klamath Falls, Ore.; Prop. No. 4-59-947, to George R. Stacy, Oreg. Ltd. ,Box 853, Klamath Falls, on low bid of $17,173. Bids were opened on September 29. Work starts on the project October 13.

ZZ 10-15. Previous report 10-2

●BRIDGE— Linn County, Ore.

Bids to be opened 2 p.m., October 24, by Bureau of Public Roads, 824 Morgan Bldg., Portland, for constructing a 176' reinforced concrete bridge on Cooper's Ridge Main Line Road, Willamette National Forest, Linn County; FDRP 1059-A. Plans with above office.

Quantities: 80 c.y. structure excavation, 223 c.y. concrete; 56,000 lb. reinforcement steel; 365' steel bridge railing.

DM 10-15

WATERTANK ROOF— McNary Lock and Dam, Ore.

Bids will be called soon by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, Wash., for construction of a new roof for the existing 250,000-gal. water tank at McNary Lock and Dam, near Umatilla, Umatilla County, Ore.; CIVENG-45-164-59-20. Completion time 60 calendar days.

DM 10-14

●SANITARY SEWERS— Milwaukie, Ore.

Bids to be opened 8 p.m., October 27, by R. E. Osborne, city recorder, City Hall, Milwaukie, for construction of sanitary sewers to serve part of the Ardenwald area of the city. Plans with Stevens & Thompson, consulting engineers, 2234 S.W. 5th, Portland. $15 deposit.

Quantities: 834' of 18", 170' of 12", 1,354' of 10" and 8,522' of 8" concrete sewer pipe; 41 standard manholes.

DC 10-15

★TRACTORS, GRADER— Portland, Ore.

Award to Hessell Implement Co., 1925 E. Powell Blvd., Gresham, $8,876 (net, including trade-in), by Multnomah County Commissioners, 504 County Courthouse, Portland, for furnishing four new current model four-wheel industrial type tractors equipped with hydraulic operated highway mowers. Award on grader was previously reported.

WB 9-14. Previous report 9-24

★PUMP, LOADER, ROLLER, SPREADER— Portland, Ore.

Award by City Purchasing Agent, 208 City Hall, Portland, for furnishing one gasoline-driven, 10 gpm fuel oil pump; one automotive front-end material loader with 1 c.y. bucket; one gasoline-powered, 2½ to 4-ton tandem asphalt roller; one four-wheel, trailer type spreader box. AWARDS—PUMP: Brod & McClung, 9800 S.E. McBrod Ave., Milwaukie, $919. LOADER: Nelson Equipment Co., 955 N.E. Union Ave., Portland, $8,037. ROLLER: Balzer Machinery Co., 2136 S.E. 8th Ave., Portland, $2,595. SPREADER BOX: Columbia Equipment Co., 1240 S.E. 12th Ave., Portland, $2,219.

WB 10-14. Previous report 9-30

SEWAGE DISPOSAL SYSTEM— Portland, Ore.

(Estimated cost $30,000,000)

Plans are nearing completion by Stevens & Thompson, consulting engineers, 2234 S.W. 5th Ave., Portland, on the Tryon and Fanno

Creek temporary treatment plants for the Tri-County Authority (formerly Tri-County Sanitary Committee), M. James Gleason, chairman, Multnomah County Commissioner, Courthouse, Portland. Bid calls will be issued by Multnomah County, acting for the authority, which also includes the county courts of Washington County at Hillsboro, and Clackamas County at Oregon City.

The Tri-County master plan of sewerage disposal, drawn by Stevens & Thompson, was adopted by the authority in December, 1956, and since that date the three counties have had the authority to require that any new sewerage system or treatment facilities proposed in the Tri-County metropolitan area conform to the master plan. The plan locates proposed trunk and interceptor sewers irrespective of political boundaries, and provides for a single secondary treatment plant at Oswego. Only one major pumping station, located on the east bank of the Willamette River at Oak Grove and across from the treatment plant, will be required. Sites for the pumping and treatment plants have been acquired. The area covered by Tri-County is bounded on the north by the Columbia River, extends beyond the City of Beaverton on the west, beyond the City of Gresham on the east, and to the city of Gresham on the south.

The Fanno Creek sewage treatment plant, to be located near Denny Road near Beaverton in Washington County, is estimated to cost $525,000, and one-third of the cost will be paid from federal funds. It will be a temporary structure, designed with steel tanks which can be salvaged, and will serve a 15,000 population load in portions of western Multnomah and eastern Washington counties, until a permanent plant is constructed.

The Tryon Creek sewage treatment plant, estimated to cost $420,000, will be located on the site of the permanent plant at Oswego, and will eventually be expanded. It will handle a population of 10,000.

Plans for the Tryon Creek interceptor sewer, to serve the above plant, are underway by Moffatt, Nichol & Taylor, consulting engineers, 1845 N.E. Couch St., Portland. Estimated to cost $258,000, the 4-mi. sewer will run between the plant and S.W. 26th Ave. and Taylors Ferry Road, to serve the south slope of the Tualatin hills in northwest Clackamas and southwest Multnomah counties.

An interceptor sewer from the Fanno Creek plant, running about five mi. along S.W. Bertha - Beaverton Highway to 30th Ave., is planned for construction in the summer of 1959. Estimated cost is $460,000.

Until permanent financial arrangements can be made, Multnomah County will put up the bulk of construction funds from a special revolving fund. Costs will be retired by a proposed $250 connection fee.

Stevens & Thompson are also preparing plans for sewage systems for West Slope and Oak Lodge, both to tie in with the Tri-County system.

Plans will be completed early in 1959 for a sewer system, including trunk lines and laterals, for Oak Lodge Sanitary District, Joseph W. Davies, chairman, 3033 S.E. Marguerite Lane, Milwaukie. The district, located south of Milwaukie on the east bank of the Willamette River in the Oak Grove-Jennings Lodge area, approved a $1,200,000 bond issue last spring. An interceptor will carry sewage across the river to the Oswego plant. A federal grant of $80,400 has been made to the district. (Previous report 5-9, Sewerage System, Oak Grove, Ore.)

Construction is expected to start next spring on the system for West Slope Sanitary District, Herbert A. Schink, secretary, district office, 3105 S.W. 89th Ave., Portland. The district approved a $1,500,000 bond election, and has received a $249,200 federal grant. Interceptor sewers will connect with the Fanno Creek plant, and lateral sewers will be built. (Previous report 10-31, Sewage System, Portland, Ore.) WB 10-2

▲WHARF FLOODLIGHTING— Portland, Ore.

Three bids received by Port of Portland, 3848 N. Lagoon Ave., Swan Island, Portland (Box 4099), for furnishing and installing pole-mounted mercury-vapor floodlights along the ship repair wharf at Swan Island. Alternate bids received October 8 for installing six, five or four poles and banks of lights complete. BIDS: Tice Electric Co., 2139 S.E. Belmont St., Portland, $9,070; $7,765; $6,459; W. R. Grasle Co., 437 N.W. 16th Ave., Portland, $9,284; $8,000; $6,716; Olson Electric Co., 710 W. 8th St., Vancouver, Wash., $9,577; $7,907; $6,637.
WB 10-10. Previous report 9-20

▲ELEVATED STEEL WATER TANK— Portland, Ore.

Four bids received by L. W. Rayner, city purchasing agent, 208 City Hall, Portland, for construction of a 1,500,000-gal. elevated steel water tank (St. Johns No. 3) at N. Oswego Ave. and Princeton St., Portland. Bids opened October 8. BIDS: Pittsburgh-Des Moines Steel Co., 518 Lane St., Seattle, $193,177; Chicago Bridge & Iron Co., 1318 4th Ave., Seattle, $211,000; American Pipe & Construction Co., 518 N.E. Columbia Blvd., Portland, $219,750; Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave., Portland, $232,550. WB 10-10. Previous report 9-30

▲STREET IMPROVEMENT— Portland, Ore.

Four bids received by Will Gibson, City Auditor, City Hall, Portland, for improvement of S.E. Cora St. from S.E. 82nd to 87th Ave. Bids opened October 8. BIDS: Parker & Fuhrman, 11524 S.E. Foster Road, $14,014; Harold G. LaVelle, 10430 S.E. Bush St., $14,565; Portland Road & Driveway Co., 7295 S.E. King Road, $14,887; Logan, Taylor & Co., 7800 N.E. Killingsworth St., $15,208. Of Portland. WB 10-10. Previous report 10-3

★REINFORCED CONCRETE BRIDGE— Portland, Ore.

Award to Q. L. Rufener, 4729 S.E. Ash St., Portland, $20,831, by Bureau of Public Roads, B. M. French, regional engineer, 824 Morgan Bldg., Portland, for furnishing material and constructing 135' reinforced concrete bridge, Oregon Forest Development Project Willamette 1858-A, Pacific Creek Road, Briem Bridge, Willamette National Forest, Lane County, Ore. Six bids received October 8. 2ND LOW: Inter-City Sand & Gravel Co., 3698 Franklin Blvd., Eugene, $21,531. HI BID: John Kovtynovich, 395 Skyline Loop, Eugene, $28,941. Engineer's estimate, $24,263.
WB 10-10. Previous report 10-1

●CORRUGATED METAL PIPE— Portland, Ore.

Bids will be opened 2 p.m., October 27, by City Purchasing Agent, 208 City Hall, Portland, for furnishing corrugated metal pipe for calendar year 1959. WB 10-10

●RIVER RUN GRAVEL— Portland, Ore.

Bids will be opened 2 p.m., October 27, by City Purchasing Agent, 208 City Hall, Portland, for furnishing river run gravel for calendar year 1959. WB 10-10

●TENNIS COURTS— Portland, Ore.

Bids will be opened 2 p.m., October 24, by City Purchasing Agent, 208 City Hall, Portland, for construction of tennis courts at Berkeley Park, S.E. 39th & Bybee; Glenhaven Park, N.E. 78th Ave. & Alameda; Playground No. 127, N. Clarendon & Newark, and Essex Park, S.E. 76th Ave. & Center. Separate bids for concrete work and fencing. Certified check or bid bond 10%.
WB 10-10

●REINFORCING STEEL— Portland, Ore.

Bids will be opened 2 p.m., October 27, by City Purchasing Agent, 208 City Hall, Portland, for furnishing reinforcing steel for calendar year 1959. WB 10-10

●FITTINGS— Portland, Ore.

Bids will be opened 2 p.m., October 24, by City Purchasing Agent, 208 City Hall, Portland, for furnishing malleable iron galvanized pipe fittings, service clamps, "dresser" type fittings, repair clamps and welding fittings to the Bureau of Water Works.
WB 10-10

●INSTRUMENT TRANSFORMERS— Portland, Ore.

Bid opening has been extended from October 10 to 3 p.m., P.S.T., October 23, on furnishing transformers fob Eavan Spur in Vancouver, and Covington, Wash.; Inv. No. 8874. Bids will be opened by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland. Specifications with Portland office. DM 10-11. Previous report 9-19

★RELINING CONDUITS— Portland, Ore.

Award to American Pipe & Construction Co., Pipe Linings Division, 518 N.E. Columbia Blvd., Portland, $470,022, by City Purchasing Agent, 208 City Hall, Portland, for relining of 58" lockbar conduit No. 3 in place (Unit 4), and of 44" lockbar conduit No. 2 in place (Unit 1) for the Bureau of Water Works. WB 10-11. Previous report 10-1

★GRADING, CONSTRUCTING POSTS— Portland ,Ore.

Awards by Bureau of Public Roads, 824 Morgan Bldg., Portland, for two road projects on Oregon Coast Highway, Siuslaw National Forest. FHP-3-A3, for grading 2.832 mi., Lincoln and Tillamook counties, awarded to G. D. Dennis & Sons, 7356 S.E. Johnson Creek Blvd., Portland, $456,071. Engineer's estimate, $679,190. FHP 3-A4, for grading 0.637 mi. and constructing posts on 0.228 mi., Tillamook County, awarded to Fred H. Slate Co., Ore. Ltd., and E. C. Hall Co., 7508 S.W. 40th Ave., Portland, $330,416. Engineer's estimate, $412,995.
WB 10-11. Previous report 10-4

▲REINFORCED CONCRETE BRIDGE— Portland, Ore.

Eight bids received by Bureau of Public Roads, 824 Morgan Bldg., Portland (Box 3900) for furnishing material and constructing 110' reinforced concrete bridge, Oregon Forest Development Road Project Willamette S 918, South Fork Breitenbush River Road, Willamette National Forest, Marion County, Ore. Bids opened October 9. TWO LOW: Balkwill & Furber Construction Co., 1217 S.W. 19th Ave., Portland, $35,644; Lundmark Bros., Colton, $36,086. HI BID: D. & H. Construction Co., Boring, $43,677. Engineer's estimate, $37,563.
WB 10-11. Previous report 10-8

★DISCONNECTING SWITCHES— Portland, Ore.

Award to Schwager-Wood Corp., 8024 S.W. 35th Ave., Portland, $41,705, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and disconnecting switches; Inv. No. 8871.
WB 10-11. Previous report 9-30

★GRADING, FILL— Portland, Ore.

Award to General Construction Co., 4850 N.W. Front Ave., Portland, $16,036, by Multnomah County Commissioners, purchasing agent, 504 County Courthouse, Portland, for grading and placing a hydraulic fill for a boat landing ramp and parking lot on the Columbia River at Marine Drive, near N.E. 47th Ave. WB 10-11. Previous report 9-11

●CULVERT PIPE— Portland, Ore.

Bids to be opened 2 p.m., P.S.T., October 24, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, Ore., for furnishing 3,500' of corrugated iron or steel, zinc coated, culverts and underdrains; Inv. No. 8887. Pipe will run from 12" to 36" diameter. DM 10-15

■GRADING, CONSTRUCTING BRIDGES— Portland, Ore.

Additional planholders announced for grading 2.858 mi. and constructing two reinforced concrete bridges totaling 206.02' on Dumont Creek Road, Umpqua National Forest, Douglas County; FDRP 2813-A. Bids will be opened 10 a.m., October 20, by Bureau of Public Roads, 824 Morgan Bldg., Portland. Plans with above office.

Additional planholders: R. A. Heintz Construction Co., 211 N.E. Columbia Blvd.; G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd.; Babler Bros., Inc., 4617 S.E. Milwaukie Ave.; Charles T. Parker, 219 Builders Exchange Bldg. Of Portland. Durbin Bros. Construction Corp., 4110 W. 11th, Eugene; Thornton Construction Co., Box 1066; C. H. Strong, Box 366; S. W. Groesbeck, Box 646; Earl L. McNutt Co., 351½ E. Broadway; Inter-City Sand & Gravel Co., 3698 Franklin Blvd. Of Eugene.

Thornton-Bell, Box 49, Roseburg; Elte Construction Co., Route 3, Boring; McNutt & Sons, Inc., 827 N. Mill St., Springfield; Stanley Wilt, Box 199, Corvallis; Timber Access Industries Co., 2399 N. 9th St., Corvallis; Hamer Corp., Box 428, Roseburg; Louis Elterich Co., Box 868, Port Angeles, Wash.; Miller & Hutchins, 100 Grant Smith Road, Roseburg; White Bros. Construction Co., Box 302, Winston; Schutt Construction Co., Inc., Box 727, Springfield; Floyd R. Grubb, 1305 20th St. S.E., Salem; M. C. Lininger & Sons, Box 1386, Medford. (In previous report a Eugene address was erroneously listed for Funderburk Construction Corp., Sutherlin).

WB 10-15. Previous report 10-9

■ **GRADING—** **Portland, Ore.**

Additional planholders announced for grading 5.557 mi. on Agness Roads, Siskiyou National Forest, Coos and Curry counties, Ore.; FDRP Siskiyou 333-B. Bids will be opened 10 a.m., October 22, by Bureau of Public Roads, 824 Morgan Bldg., Portland. Plans with above office.

Additional planholders: G. D. Dennis & Sons, 7355 S.E. Johnson Creek Blvd.; Babler Bros., Inc., 4617 S.E. Milwaukie Ave.; Fred H. Slate Co., Oreg. Ltd., 7805 S.W. 40th Ave.; E. C. Hall Co., 11655 S.W. Barbur Blvd.; J. N. Conley, 4332 N.E. Royal Court. Of Portland.

Timber Access Industries Co., 2399 N. 9th St., Corvallis; Floyd Grahm Construction Co., Box 215, Lebanon; White Bros. Construction Co., Box 302, Winston; Schutt Construction Co., Inc., Box 727, Springfield; Floyd R. Grubb, 1305 20th St. S.E., Salem; M. J. Coleman, Inc., Box 107, Ukiah, Calif.; Funderburk Construction Co., Sutherlin; McNutt & Sons, Inc., 827 N. Mill St., Springfield; Coos Bay Dredging Co., Box 217, Coos Bay; Calkins Crushing Co., Box 478, Oceanlake.

WB 10-15. Previous report 10-9

★**STATE HIGHWAY PROJECTS—** **Salem, Ore.**

Two awards announced by Oregon State Highway Commission, Salem, on highway construction projects on which bids were opened September 9.

GRADING, PAVING, Comstock-Aunlauf Section—About 1.38 mi. on Pacific Highway, south of Cottage Grove, Douglas County; FAIP I-5-3(5)163. AWARD: White Bros. Construction Co., Inc., Box 376, Walla Walla, Wash., $270,577.

BRIDGES, Rough and Ready Creek-Dwight Creek—Three-span reinforced concrete deck girder bridges, 170' at Rough and Ready Creek, 144' at West Fork Illinois River, 139' at Elk Creek, on Redwood Highway about 5.2 to 11.9 mi. south of Cave Junction, Josephine County; FAP No. F-127(8). AWARD: Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $329,936.

CA 10-10. Previous report 9-13

●**STATE HIGHWAY PROJECTS—** **Salem, Ore.**

Bids to be opened 9 a.m., October 21, by Oregon State Highway Commission, 418 State Highway Bldg., Salem, on 22 highway construction projects. Plans with above office. $2 charge.

Contracts will be awarded at the October 23 meeting of the commission in Salem.

BRIDGE, Eagle Creek—Construct 170' reinforced concrete bridge on county road No. FAS-511, 1.3 mi. south of Richland, about 40 mi. east of Baker, Baker County; FAP No. DS-404(1).

SHED, State Highway Maintenance Site—Construct 60'x79' pile and timber-framed sand storage shed on Mt. Hood Highway at easterly limits of Sandy, Clackamas County; a State Project. Building to have aluminum roofing and board and batten siding.

BRIDGE, Fairview Bridge over North Fork Coquille River—Construct 217', four-span continuous reinforced concrete deck girder bridge on concrete column and pile bents on Myrtle Point-Fairview Highway, seven mi. northeast of Coquille, Coos County; FAP No. DS-374(3).

TRAFFIC SIGNALS, Cape Arago Highway—Install traffic signals at Newmark Ave. and Ocean Blvd. in Empire, Coos County; a State Project.

GRADING, OILING, Access Road at Bend Truck Scale Site—Grading, oiling 0.52 mi., The Dalles-California Highway about four mi. south of Bend, Deschutes County; FAP No. F-108(9).

BRIDGE, Deschutes River—Construct 168' bridge of eight precast panel spans on treated timber pile bents on Century Drive Highway about 16 mi. southeast of Bend, Deschutes County; a County Project.

GRADING, OILING, Fairgrounds Interchange in Roseburg—Grading, oiling 1.15 mi. frontage road on Pacific Highway, Douglas County; FAIP No. I-5-3(8)124.

GRADING, PAVING, East Unit, Garden Valley Road—Grading, asphaltic concrete paving 0.52 mi. on Douglas County road, north of Roseburg; FAP No. DUS-402(1).

WIDEN STRUCTURE, Calapooya and Stearns Lane—Widening existing structure about 18' on each side, Pacific Highway about 2 mi. west of Oakland, Douglas County; FAIHP No. I-5-3(7)-137.

ROADSIDE IMPROVEMENT, South from Myrtle Creek—on Pacific Highway, Douglas County; FAIHP No. I-5-2(18)104.

ROADSIDE IMPROVEMENT, Jumpoff Joe Creek-Louse Creek—On Pacific Highway from 4 to 10 mi. north of Grants Pass, Josephine County; FAIHP No. I-5-2(19)62.

STRUCTURES, Klamath Falls Section—Three bridges of prestressed precast concrete beam construction on steel pile and concrete column bents, The Dalles-California Highway, on Nevada Ave. Interchange in Klamath Falls to carry highway over Nevada Ave. and U.S.B.R. Canal and southwest leg of interchange over U.S.B.R. Canal, Klamath County; FAP No. DU-205(8).

BRIDGE, Lost River—Reinforced concrete deck girder bridge on concrete column bents, 120', three-span, on Langell County Road about six mi. southeast of Bonanza, Klamath County; FAP No. DS-186(2).

FENCING, Oregon Coast Highway—About 470 rods type 3 fence, Beverly Beach Park, about six mi. south of Depoe Bay, Lincoln County; a State Project.

PARK EXTENSION, Devils Lake State Park—Construct 16 trailer sites, 48 camp sites, access roads, utility building, latrine, water, sewer and electrical systems, on Oregon Coast Highway between Ocean Lake and DeLake, Lincoln County; a State Project.

TWO BRIDGES, Rock Creek, Mill Creek—Construction 100' reinforced concrete deck girder bridge supported on timber pile bents on county road FAS No. 150, about 4.6 mi. east of Logsden; construct 92' bridge with four 23' precast concrete panel spans with 23.4' clear roadway, precast curbs and wood handrails on timber pile bents on county road FAS No. 584 about 3.3 mi. southeast of Toledo; both in Lincoln County; FAS Nos. DS-135(3) and DS-176(4).

NINE UNDERCROSSING STRUCTURES, South Santiam Jct.-Lane County Line—Seven structures will be 243' long, have four spans and 24' roadways; two structures will be 245' long, have four spans and 48' roadways. All structures may be continuous reinforced concrete deck girder spans poured in place, or all may utilize prestressed precast beams. Structures will carry county roads over Pacific Highway from about five to 21 mi. south of Albany, Linn County; FAIP No. I-5-4(27)212.

GRADING, PAVING, Access Road at Fort Hill Truck Scale Site—Grading, asphaltic concrete paving 0.5 mi. Salmon River Highway about five mi. west of Willamina, Polk County; FAP No. F-300(15).

GRADING, Grass Valley-Rutledge Section—Grading 5.86 mi. easterly from Sherman Highway at a point about 0.5 mi. south of Grass Valley, Sherman County; FAP No. DS-408(1).

GRADING, Deadmans Pass-Meacham Section—Grading 9.26 mi. Old Oregon Trail Highway about 18 mi. easterly of Pendleton, Umatilla County; FAIHP No. I-90N-6(14)227; (Old-I-82-6(14)227).

GRADING, The Dalles-Eightmile Creek Section—Grading 6.7 mi. The Dalles-California Highway southeast of The Dalles, Wasco County; FAP No. F-102(3).

BRIDGE, GRADING, Dry Creek—Constructing 110' reinforced concrete slab span bridge and 0.25 mi. grading on Long Hollow Road (FAS 708) about 2.5 mi. northeast of Dufur, Wasco County; FAP No. DS-407(1).

DM 10-10

★**STATE HIGHWAY PROJECT—** **Salem, Ore.**

Award announced by Oregon State Highway Commission, Salem, for a highway construction project on which bids opened September 11.

PAVING, Sundial-Multnomah Falls Section—Paving 14.3 mi. Columbia River Highway, 15 to 30 mi. east of Portland, Multnomah County; FAIHP I-82-1(11)14 and I-82-2(7)15. AWARD: Rogers Construction Co., 11760 N.E. Glisan St., Portland, $1,699,492.

CA 10-11. Previous report 8-7

★**STATE HIGHWAY PROJECT—Salem, Ore.**

Award announced by Oregon State Highway Commission, Salem, on a highway construction project on which bids were opened August 26.

GRADING, PAVING, North Plains Interchange Section—Grading 1.25 mi., paving 98 mi. on Sunset Highway about 15 mi. west of Portland, Washington County; FAP DF-186(18).

AWARD: Warren Northwest, Inc., Box 5072, Portland, $290,489.

DM 10-15. Previous report 9-11

AIRPORT— **Seaside, Ore.**

Oregon State Board of Aeronautics has approved a plan for construction of a small airport at Seaside, and has given Earl Snyder, director of aeronautics, authority to proceed with engineering plans.

DC 10-14

●**CHANNEL, LEVEE—** **Umatilla County, Ore.**

Bids to be opened 2 p.m., P.S.T., November 6 by Corps of Engineers, Bldg., 602, City County Airport, Walla Walla for construction of channel and levee at Umatilla River, Umatilla County, vicinity of Pendleton, Ore.; CIVENG-45-164-59-19. Plans with Walla Walla office. Bid bond 20%. Completion time 270 calendar days.

Quantitites: 25 acre clearing, grubbing; 11 acre foundation preparation; 14,000 c.y. bank excavation (existing work); 85,000 c.y. bank excavation (new work); 112,000 c.y. channel excavation; 350 c.y. structural excavation, common; 12 c.y. structural excavation, rock; 75,000 c.y. embankment; 6,800 c.y. dumped riprap (existing); 21,700 c.y. dumped riprap (new); 2,600 c.y. gravel blanket; 110 c.y. portland cement concrete; 7,000 lb. steel reinforcing; 58' of 60" corrugated metal pipe culvert, bituminous coated; install 92' of government furnished, 24" corrugated metal culvert pipe. DM 10-11

●**STEEL PIPE—** **Zigzag, Ore.**

Bids will be opened 11 a.m., P.S.T., October 23, by U.S. Forest Service, 729 N.E. Oregon St., room 201, Portland, for steel pipe, valves and fittings for Timberline Lodge water system, fob Zigzag Ranger Station, Zigzag; Inv. No. R6-59-131. Includes 5,150' of standard weight, 4" pipe; 2,600' of extra strong 4" pipe, and 160' of 6" standard weight pipe; valves, fittings, etc.

WB 10-11

WASHINGTON

▲**WATER MAINS—** **Bellevue, Wash.**

Award may be made on October 20 by King County Water District No. 68, Clyde Hill, Bellevue, for furnishing and installing 5,180' of asbestos-cement water mains and 500' of cast iron, mechanical joint pipe, with appurtenances (Sched. 1), or 2,680' of asbestos-cement water mains and 3,000' of cast iron water pipe (Sched. 2), for the water system. Low bid at October 6 bid opening was Harbert Construction Co., 107 S. 3rd W., Longview, $36,931 (Sched. 1), $49,963 (Sched. 2).

OTHER BIDS: Shoreline Construction Co., 12519 15th N.E., Seattle, $38,535, $50,300; Frank Coluccio Construction Co., 7778 Seward Park Ave., Seattle, $39,215, $51,513; Harold E. Olds, 3111 N. 24th, Tacoma, $52,723, $66,422.

PC 10-11. Previous report 10-8

DRAINAGE— **Bellingham, Wash.**

Whatcom County Commissioners, Court-

house, Bellingham, will appoint appraisers to assess maintenance and consolidation costs for Drainage Improvement District 22, 23 and 24. A hearing will be held following the report. The consolidation will improve economy and maintenance of drainage operations according to the commissioners. ET 10-14

BOAT RAMP— Bellingham, Wash.

A committee has been selected by Bellingham Propeller Club to study the launching facilities available in Bellingham Bay. Tom Glenn, Jr., engineer for Port of Bellingham, has promised that port property will be made available for the ramp. ET 10-14

★SANITARY SEWER LINE— Bellingham, Wash.

Award to Bay Enterprises, Inc., 1155 Ellis, Bellingham, $56,851, by City Council, City Hall, Bellingham, for construction of the College-23rd Street sanitary sewer line in Bellingham. CA 10-14. Previous report 9-26

★SANITARY SEWER— Bellingham, Wash.

Award to Walters Construction Co., Mt. Vernon, $191,508, by City Council, City Hall, Bellingham, for installing sanitary trunk and interceptor sewer to intercept existing sewers on five city streets, to provide outlets for the Birchwood District.
ET 10-14. Previous report 10-7

AIRPORT RUNWAYS— Bellingham, Wash.

CAA officials from Los Angeles and Seattle have checked facilities at Bellingham Airport and will issue recommendations for improvements within the month. Port officials in Bellingham ask that the status of seal coating and placing gutter on North-South runway, be determined. ET 10-2

SANITARY SEWER— Bellingham, Wash.
(Estimated cost over $100,000)

The Birchwood District sanitary trunk and interceptor sewer on which bids will be opened 9:30 a.m., October 6 by City Council, City Hall, Bellingham, will intercept existing sewers on five city streets. Plans by city engineer, call for laying 36" reinforced concrete sewer pipe; clearing, grubbing, excavating, backfilling.
ET 10-2. Previous report 9-30

FLOOD CONTROL— Bellingham, Wash.

A cost sharing agreement between Whatcom County and the state flood control division, has been completed, providing for rock riprap protection on Robert Coles property south of Eversson. Cost is estimated at $3,400. ET 10-4

STREET LIGHTING— Bellingham, Wash.

The Board of Port Commissioners, Post Office Drawer 643, Bellingham, has requested the Bellingham City Council to enter into an agreement with Puget Sound Power Co. to extend and revise street lighting along the north face of Squalicum fill, in the area of the planned new float placements. ET 10-4

SEWAGE IMPROVEMENT PROGRAM— Bellingham, Wash.

Consulting engineer, Clyde C. Kennedy, Atlas Bldg., 604 Mission St., San Francisco, Calif., has been retained by City Council, City Hall, Bellingham, to make a survey of sewage problems in the city. The firm will work with W. E. Cameron, city engineer, in determining a sewage improvement program.

A report will be made on 1—the most feasible method of providing sewage treatment for the South Side area, 2—quantity of sewage to be treated at the existing North Side sewage treatment plant, 3—functional flow outlining required enlargements and improvements necessary to be made to the North Side plant to adequately treat the determined design flow, and on approval of this by the city engineer. Construction plans and specifications will be prepared for enlargements and improvements.

Requirements—1—a review of existing South Side-Fairhaven sewer system together with present and future programmed extensions to serve the topographically tributary area; estimates of population and sewage flow to be expected; treatment plant facilities required to provide necessary treatment before discharge into Bellingham Bay; size and general locations of treatment plant site; consideration of an alternate plan of combining the South Side sewage with the North Side Plant flow; preliminary estimate of cost of treatment or trunk line facilities sufficient for a financing budget, 2—planning and direction of the installation of flow measuring facilities, methods of record taking and recording, to determine the flows in the West Holly and East Holly sewer lines to enable rational determination of the design capacity to be provided for the enlarged North Side sewage treatment plant, 3—evaluation of capacity of existing sewage treatment plant, design of modifications and enlargements and preparation of a functional flow diagram showing proposed plant construction. ET 10-4

PIPELINE, DIVERSION DAM— Bellingham, Wash.
(Estimated cost $3,038,000)

City Council ruling on preparation for a $3,000,000 bond sale will be contingent on approval by financial advisors Foster & Marshall, 820 2nd Ave., Seattle, of a water contract with the Puget Sound Pulp mill, combined with Pacific Coast Paper Co., for financing the middle fork, Nooksack River dam and diversion tunnel water supply project. ET 10-4. Previous report 9-12

●STEAM LINE REPAIR— Blaine AFS, Wash.

Bids to be opened 2 p.m., P.S.T., October 30 by U. S. Air Force, base procurement office, Paine Air Force Base for repair of overhead steam lines at Blaine Air Force Station; Inv. No. 600-59-47. Plans with Paine office. Bid bond 20%.

Work consists of repairing existing steam lines by replacing two gate valves with approximate insulation, painting overhead piping system with aluminum paint, cleaning and painting pipe hangars with heavy coat of aluminum paint. HH 10-11

TENNIS COURTS— Bothell, Wash.

Bids will be called again in the Spring of 1959 by Bothell School District No. 46, Julian Kark, superintendent, Box 128, Bothell, for construction of three new tennis courts. Bids were called earlier and rejected.
CA 10-3. Previous report 9-19

▲STEEL PIPE— Bremerton, Wash.

Bids are being held for further study by City Council, Bremerton, on installation of about 1,705' of 20" steel pipe on the Port Washington Narrows Bridge in Bremerton. Bids were opened October 8. BIDS: Pacific Mechanical Constructors, Inc., Lloyd Bldg., Seattle, $48,000; Hoagland-Findlay-Kemper Construction Co., 3330 Beach Drive, Seattle, $53,450; Lent's, Inc., Bremerton, $53,950. The low bid had a 180 day completion, while the others specified less time.
DC 10-14. Previous report 9-26

●DRY DOCK— Bremerton, Wash.
(Estimated cost $34,000,000)

Bids will be received until 2 p.m., December 17, by 13th Naval District, Capt. Stanley P. Zola, Public Works officer, U.S. Naval Station, Seattle, for construction of the first increment of a $30 million dry-dock at the Puget Sound Naval Shipyard at Bremerton. Architectural, engineering and design features were prepared by Moran, Proctor, Mueser & Rutledge, New York, and Carey & Kramer, consulting engineers, 1917 1st Ave., Seattle. Plans with the district, room 107B, Bldg. 250. $400 deposit.

A period of approximately 60 days is being allowed from the bid call to the opening date, to permit contractors to study the 307 pages of plans and drawings.

The dock, the largest in the world, will have inside dimensions of 1,150' length, 188' width, and 61' below yard grade. It will provide 37½' of working space alongside a carrier. Design will permit construction of the dry dock out into Sinclair Inlet.

Quantities: 550,000 c.y. dredging; 1,110,250 c.y. fill and backfill; 5,440 ton sheet pile; 153,255 c.y. concrete; 12,700' prestressed concrete pipe; 8,510 ton reinforcing steel; 866 ton miscellaneous iron and structural steel; 8,400 c.y. riprap; 92,000 c.y. drainage course; 32,500 sq. yd. bituminous concrete pavement; 4,400 sq. ft. concrete masonry.

Project will be divided into four sections—Phase 1: fuel oil tanks and distribution, demolition, dredging, initial backfill. Phase 2: sheet pile cut-off walls, outboard cofferdam, fill-construction dams. Phase 3: site dewatering, trim side slopes, excavation in dry, head end and pumpwell cofferdams. Phase 4: dry dock construction, complete backfill, remove entrance cofferdam, construct Pier 9, utilities, crane tracks, paving, buildings. PD 10-14. Previous report 9-26

FLOOD CONTROL— Colfax, Wash.

A bond issue for a flood control project will be placed on the November 4 election ballot. In a previous election a similar bond issue was rejected by Colfax voters.
MH 10-4. Previous report 3-18

TIDE BOX, REVETMENT— Cowlitz County, Wash.

Bids will be called soon by Corps of Engineers, 620 Pittock Block, Portland, Ore., for removing existing tide box and steel sheet pipe cut-off wall, constructing new four-barrel 72" corrugated metal pipe tide box with automatic drainage gates, pile hold-downs, concrete gate well with circular slide gates, drift sheer boom and trash screens, dumped-stone revetment, excavating inlet and outlet channels, at Cowlitz Consolidated Diking Improvement District No. 2; CIV-ENG-35-026-59-58. Bids will be opened early in November. Completion time March 31, 1959.

Quantities: 27,860 c.y. excavation; 800' of 72" bituminous coated corrugated metal pipe; four 72" automatic drainage gate and pile yoke; 2,210 c.y. structural backfill; 410 sq. ft. steel sheet pile retaining wall; 390 c.y. graded gravel filter; 460 c.y. pervious fitler blanket; 1,140 c.y. dumped stone revetment; 85 c.y. gravel road surface material.
DM 10-14

SEWAGE SYSTEM— Cowiche, Wash.

Construction of a proposed sanitary sewer system in Cowiche, is being contested by residents, who do not want a lagoon type of sewage disposal system. Action on awards of contract for the project is delayed by legal procedure.

Bids were opened July 1 by Town Council, Town Hall for a sanitary sewer system involving trunk laterals and service line (Sched. A), and sewage lagoon (Sched. B). Plans were prepared by Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima.

Low bids at that time were—SCHED. A: DeBlasio Bros., Route 4, Yakima, $14,526; E. M. Gostovich, Sunnyside, $16,795; Nate Kimball, 1019 Pleasant Ave., Yakima, $17,409. SCHED. B: McConnachie Construction Co., Roza Vista Place, Terrace Heights, Yakima, $8,888; H & S Construction Co., Yakima, $10,099; E. M. Gostovich, Sunnyside, $10,152.
IG 10-4. Previous report 7-11

●TIDE BOX, REVETMENT— Cowlitz County, Wash.

Bids to be opened 2 p.m., P.S.T., November 4, by Corps of Engineers, 628 Pittock Block, Portland, Ore., for removing existing tide box and steel sheet pipe cut-off wall, constructing new four-barrel 72" corrugated metal pipe tide box with automatic drainage gates, pile holddowns, concrete gate well with circular slide gates, drift sheer boom and trash screens, dumped-stone revetment, excavating inlet and outlet channels, at Cowlitz Consolidated Diking Improvement District No. 2; CIVENG-35-026-59-58. Completion time March 31, 1959.

Quantities: 27,860 c.y. excavation; 800' of 72" bituminous coated corrugated metal pipe; four 72" automatic drainage gate and pile yoke; 2,210 c.y. structural backfill; 410 sq. ft. steel sheet pile retaining wall; 390 c.y. graded gravel filter; 460 c.y. pervious filter blanket; 1,140 c.y. dumped stone revetment; 85 c.y. gravel road surface material.
DM 10-15. Previous report 10-14

★TRANSMISSION LINE—Ellensburg, Wash.

Award to R. C. Hughes Co., N. 2105 Airport Road, Spokane, $132,008, by Kittitas County Public Utility District, 301 N. Main, Ellensburg, on construction of a 33 kv trans-

mission line from the district's city substation about nine mi. east of Ellensburg. CA 10-10. Previous report 10-2

▲EARTH LINING— Ephrata, Wash.

Six bids ranging from a low of $71,286 by L. D. Shilling Co., Inc., Box 1637, Moses Lake, to a high of $159,590 were submitted to Bureau of Reclamation, Division and C St. N.W., Ephrata, for constructing 2.3 mi. of compacted blended earth lining in the existing EL 85 and EL 85CC1 laterals, Block 18; Spec. No. 117C-518. Bids opened October 14.

2ND LOW: Vern Haisch, 1623 W. Mound, Pasco, $72,157. 3RD LOW: Basto Construction Co., Box 982, Pasco, $82,890. HI: Floyd R. Grubb, 1305 S. 20th St., Salem, Oregon, $159,590. Government estimate $86,102. CA 10-15. Previous report 9-27

★CULVERT— Grays Harbor County, Wash.

Award to Russell M. Espedal, 5906 N. Greeley Ave., Portland, $8,920, by U.S. Forest Service, 729 N.E. Oregon St., Portland, Ore. (Box 4137), for installation of culvert on Donkey Creek Road No. 220, Olympic National Forest, Grays Harbor County, Wash.; Bid No. R6-59-81. WB 10-11. Previous report 9-20

●TREE REMOVAL— Green River, Wash.

Bids to be opened 2:15 p.m., P.S.T., October 23, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for removal of danger trees, on Green River about 40 mi. southeast of Seattle or about seven mi. upstream from Kanaskat, for the Northern Pacific Railway relocation project; CIVENG-45-108-59-10. Plans with above office. Bid bond 20%. Completion time 60 calendar days. Project involves logging and cold-decking 140 MBM merchantable sawlogs and pulp plywood. DM 10-15

GENERATORS— Ice Harbor Dam, Wash.

A temporary delay has been announced on calling for bids on the design, manufacture, delivery, installation and testing of three 9,4837-kva generators for Ice Harbor Dam, Wash.; CIVENG-45-164-59-14. It is anticipated that bids will be called later in October by Corps of Engineers, Walla Walla district, Bldg. 602, City County Airport, Walla Walla, and that bids will be opened about November 4. DM 10-9. Previous report 9-24

★FLOATS— Ilwaco, Wash.

Award to Kirman & Strand, Seaview, $46,519, by Ilwaco Port Authorities, Ocean Park, for floats in the east end of the new Ilwaco moorage basin, to accommodate from 120 to 160 sports boats.

OTHER BIDS: A. J. Will, Ilwaco, $47,604; Palmberg Construction Co., Pier 3, Astoria, Ore., $47,520; Howard Gerttula, Ilwaco, $56,289. CA 10-14. Previous report 8-16

●CRUSHED STONE (Furnish)— King County, Wash.

Bids will be received until 9:30 a.m., November 3, by King County Commissioners, 402 County City Bldg., Seattle, for furnishing crushed stone surfacing in stockpile from two locations, Maury Island (30,000 c.y.) and Redondo (40,000 c.y.) Separate contracts for each location. Plans with county engineers, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check, bid bond, 5%.

Quantities—Maury Island in Section 21, T. 22, N.R. 3, E.W.M., King County: 10,000 c.y. of 1½" crushed stone surfacing base course in stockpile; 10,000 c.y. of ¾" minus crushed stone surfacing maintenance rock in stockpile; 10,000 c.y. of ⅝" minus crushed stone surfacing top course in stockpile.

Quantities — Redondo, approximately 0.2 mi. westerly of Pacific Highway S. (P.S.H. No. 1) on S.S.H. 1-V (Dash Point Road) in Section 5, 21 N.R., 4 E.W.M., King County: 20,000 c.y. 1½" minus crushed stone surfacing base course in stockpile; 20,000 c.y. ¾" crushed stone surfacing top course in stockpile. PD 10-15

●CRUSHED STONE SURFACING— King County, Wash.

Bids will be received until 9:30 a.m., October 27, by King County Commissioners, 402 County City Bldg., Seattle, for 1.11 mi. crushed stone surfacing of S. 200th St. (Des Moines Way to P.S.H. No. 1), King County. Plans with engineers, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check, bid bond 5%.

Quantities: 1,630 ton crushed surfacing top course in place; 2,470 ton crushed surfacing base course in place; 55 M gals. water. PD 10-15

SANITARY SEWER—Mount Vernon, Wash.

Proposition calling for formation of a public sanitary sewer district at Big Lake will be placed on November 4 ballot by Skagit County commissioners. Voters will decide on formation of the district, will elect three commissioners and approve or reject a five-mill levy. PC 10-4

DIKE— Naselle, Wash.

Project postponed indefinitely by State Department of Fisheries, 4015 20th Ave. W., Seattle, for construction of an earth dike and water control facility at Teal Slough, located about six mi. from Naselle. Bids opened on September 25, Russell M. Espedel, 5906 N. Greeley Ave., Portland, $29,332, was apparent low bidder. CA 10-2. Previous report 8-27

●SEWAGE LIFT STATION— Olympia, Wash.

Bids to be received until 2 p.m., November 12, by G. E. Marshall, city clerk, City Hall, Olympia, for construction of a sanitary sewage wet well lift station to be located in intersection of 4th Ave. and Brenner St. Plans with city engineer. $5 deposit. Certified check or bid bond 5%. Completion time 20 working days.

Project involves construction of 54" inside diameter wet well, installation of two submergible sump pumps and 52' of 4" galvanized steel pipe, controls and other incidentals.

Quantities: 16' connect wet well to existing 18" sewer with two 4" galvanized steel pipe; 5 c.y. excavation; 8 c.y. pit run gravel; 20' removal of existing walk and integral curb and gutter and replacement with integral curb and 10' walk. DM 10-14

●STATE HIGHWAY PROJECTS— Olympia, Wash.

Bids to be opened 10 a.m., October 28, by Washington State Highway Commission Transportation Bldg., Olympia, on eight highway construction projects. Plans with above office. $2 charge.

CEMENT CONCRETE, ASPHALTIC CONCRETE PAVING, Sunset Lodge Vicinity and Top of Easton Hill to Easton—Draining, grading, surfacing, cement concrete and asphaltic concrete paving and signing on 6.501 mi. PSH No. 2, Kittitas County; FAP Nos. I-90-2(20)55 and I-90(10)64; a State Project.

BRIDGES, ILLUMINATION, 14th Ave. South Undercrossing and Cloverdale St. Overcrossing, Seattle—Construct reinforced concrete flat slab bridge and precast prestressed concrete bridge and install illumination on 0.016 mi. of PSH No. 1, King County; FAP No. U-001-3(16).

BRIDGES, N.P. Railway Overcrossing and East Low Canal Bridge—Construct precast prestressed concrete girder bridge and reinforced concrete slab bridge on 0.059 mi. SSH No. 7-C, Adams County; FAS No. S-SG-0982(4).

FENCING, Pelican Horn—About 7,790' of chain link fencing on 0.783 mi. of PSH No. 18, Grant County; FAP No. I-90-4(21)173.

CLEARING, GRADING, SURFACING, Mutiny Bay-Bush Point Road — Clearing, draining, grading, surfacing 2.367 mi. of IslandCounty road; FAS Nos. S-1089(1) and S-1088(1).

CEMENT CONCRETE, ASPHALTIC CONCRETE PAVING, Renton—Draining, grading, surfacing, cement concrete and asphaltic concrete paving, installing illumination on 0.481 mi. PSH No. 5, King County; a State Project.

DRAINING, GRADING, SURFACING, Block 46-Feeder Roads—Draining, grading, surfacing 22.526 mi. of Adams County roads; a State Project.

REDECKING BRIDGE, Elwha River—Redecking bridge on 0.108 mi. SSH No. 9-A, Clallam County; a State Project. DM 10-10

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Two bids were held for further study on two projects, awards were made on the other jobs on which bids were opened October 7 by Washington State Highway Commission, Olympia.

BITUMINOUS SURFACING, CEMENT BASE, S. 72nd to S. 40th in Tacoma—Clearing, draining, grading, bituminous surfacing on cement treated base, asphaltic concrete paving, fencing 1.799 mi. PSH 1, Pierce County; FAP I-5-3(33)130. AWARD: Lige Dickson Co., 3315 S. Pine, Tacoma, $897,151.

BITUMINOUS SURFACING, BRIDGE, Ritzville Vicinity—Draining, grading, bituminous surfacing, fencing, constructing steel plate girder bridge 1.921 mi. PST 18, Adams County; FAP I-IG-90-4(10)214. AWARD: C. E. Oneal, Inc., Box 270, Ellensburg, $768,317.

BRIDGES, N.E. 8th St. Undercrossing, Bellevue—Construct two precast prestressed concrete bridges on PSH 1, King County; FAP I-B5-3(37)168.

Project held for study. Low bidder was Allen R. Anderson, 3819 10th N.E., Seattle, $164,406.

BITUMINOUS SURFACING, Knapps Hill Northerly — Draining, grading, bituminous surfacing 1.579 mi. PSH 10, Chelan County; FAP- F-029-1(5). AWARD: C. E. Oneal, Inc., Ellensburg, $121,038.

PAVING BRIDGE, Elwha River Bridge 9/036 and Approaches—Grading, bituminous plantmix paving, widening on existing reinforced concrete arch bridge on 0.128 mi. PSH 9, Clallam County; FAP F-007-3(7). AWARD: Wilson & Simpson, Box 1070, Port Angeles, $89,374.

ILLUMINATION, Bridgeport Way to S. 72nd St. in Tacoma—Install illumination on PSH 1, Pierce County; FAP I-5-3(32)128. Involves four lump sum bids. AWARD: Carl T. Madsen, Inc., 808 N. 12th, Tacoma, $66,429.

SIGNING, PSH 1 to Auburn and N.E. 132nd St. to Jct. PSH 2—Two lump sum bids for signing on State Highways 2 and 2-A, King County; FAP F-046-1(7). AWARD: to second low bidder, Sutherlan Fixture Co., 42nd and S. Adams, Tacoma, $8,240.

BRIDGE, APPROACH SPANS, Sauk River—Construct through steel truss bridge with plate girder and reinforced concrete approach spans on 0.095 mi. Skagit County road; FAS S-079894).

Project held for study. Low bidder was Neukirch Bros., 745 Bellevue N., Seattle, $256,444.

ROAD RECONSTRUCTION, Martin Road—Draining, grading, surfacing 2.797 mi. Spokane County road; FAS S-0671(2) and County Project. AWARD: J. W. Hardison, Yakima, $59,959.

MATERIALS, LABORATORY, District 4—Frame building with metal covering in Clark County; a State Project. AWARD: Larry O. Collins, 7017 Highway 99, Vancouver, $20,269.

SURFACING, STOCKPILING, Mount Spokane State Park-Linders Ridge to Ski Area—Surfacing and stockpiling crushed surfacing on one mi. State Park road, Spokane County; a State Project. AWARD: J. F. Konen Construction Co., Inc., 715 D St., Lewiston, Idaho, $32,603. DE 10-10. Previous report 10-8

★STEEL BRIDGE— Olympia, Wash.

Award to Ostruske-Murphy, Inc., 1515 Center St., Tacoma, $12,997, by Thurston County Commissioners, Courthouse, Olympia, for construction of the Linkletter Bridge involving an 80' steel truss, piers and appurtenances. CA 10-14. Previous report 9-25

★STATE HIGHWAY PROJECTS— Olympia, Wash.

Awards announced by Washington State Highway Commission, Olympia, on three projects on which bids were opened October 7.

BRIDGES, N.E. 8th St. Undercrossing, Bellevue—Construct two precast prestressed concrete bridges on PSH 1, King County; FAP I-B5-3(37)168.

AWARD: Allen R. Anderson, 3819 10th N.E., Seattle, $164,406.

BRIDGE, APPROACH SPANS, Sauk River—Construct through steel truss bridge with plate girder and reinforced concrete approach spans on 0.095 mi. Skagit County road; FAS S-079894).
AWARD: Neukirch Bros., 745 Bellevue N., Seattle, $256,444.

SURFACING, STOCKPILING, Mount Spokane State Park-Linders Ridge to Ski Area—Surfacing and stockpiling crushed surfacing on one mi. State Park road, Spokane County; a State Project.
AWARD: D. A. Sullivan, Box 37, Parkwater Station, Spokane, $32,602, on a corrected low bid. Previously the Commission announced the award to J. F. Konen Co., Lewiston, Idaho, at $32,603.
DE 10-15. Previous report 10-10

●**BRIDGES**— **Olympia, Wash.**

Bids to be opened 2 p.m., October 20 by Thurston County Commissioners, Courthouse Olympia for construction of one 60' and one 78' reinforced concrete flat slab bridges and other work on the Woodard Bay Road in Thurston County. Plans with Arthur G. Ward, county engineer, Courthouse, Olympia, $2 deposit. DC 10-11

■**DRAINAGE CORRECTION**— **Okanogan County, Wash.**

Planholders announced for drainage correction on Loup Loup Highway, Okanogan National Forest, Okanogan County, Wash.; FHP 28-D7. Bids will be opened 10 a.m., October 21, by Bureau of Public Roads, 824 Morgan Bldg., Portland, Ore.

Planholders: Excavators, Inc., 5756 29th N.E., Seattle; Russell-Gillett Co., Box G, Cle Elum; O. I. Hall Co., Box 3101, International Station, Seattle; Carl Hohner & Sons, 730 W. Chelan, Spokane; Larson Construction, Box 552, Wenatchee.
WB 10-15. Previous report 10-7

▲**STEPS, WALKS**— **Pullman, Wash.**

A low bid of $3,841 was offered by Donald E. Molt, 702 Kamiaken, Pullman, when proposals were opened October 10 by State College of Washington, 303 Administration Bldg., Pullman, for construction of steps, walks and retaining wall at two halls at the college. OTHER BIDS: C & S Builders, 308 Dexter, Pullman, $4,600; Commercial Builders, 301 College, Moscow, Idaho, $5,467.
MH 10-14. Previous report 10-7

●■**GRADING AND SURFACING**— **Redmond, Wash.**

Planholders announced for grading and surfacing grounds at Redmond Junior High School. Bids will be opened 2 p.m., October 24, by Lake Washington School District No. 414, in superintendent's office, Administration Bldg., 10903 N.E. 53rd St., Houghton (mailing address Box 188, Kirkland). Plans with Mallis & DeHart, architects, 631 Lyon Bldg., Seattle.

Planholders: Lake City Gravel & Materials, 3215 E. 123rd, Seattle; Black Top Pavers, Inc., 8218 4th N.E., Seattle; Kent & Tucker, 1431 134th N.E., Bellevue; American Asphalt Co., 1438 130th N.E., Bellevue.
PD 10-15. Previous report 10-9

★**PAINT TANKS**— **Richland, Wash.**

Award to A. H. Barbour & Sons, Inc., 2828 N.E. Alberta, Portland, $5,910, by U.S. Atomic Energy Commission, Hanford Operations Office, Box 550, Richland, for painting two elevated water tanks in the 300 area at Hanford Works, Richland.

Work consists of painting one 75,000-gal. and one 100,000-gal. elevated steel water tank, including preparation of the steel surfaces for painting; application of red-lead spot-coat; aluminum paint spot-coat; one complete aluminum paint finish coat; and disinfecting the tanks before replacing them in service. CA 10-14. Previous report 10-3

★**SITE CLEARING**— **Seattle, Wash.**

Award to Bellevue Bulldozing Co., 1438 N.E. 130th, Bellevue, $6,722, by Shoreline School District No. 412, E. 158th and 205th N.E., Seattle, for clearing site at 25th N.E. and E. 155th, Seattle, for the proposed Shoreline senior high school. Architects are Mallis & DeHart, 631 Lyon Bldg., Seattle.
PD 10-14. Previous report 10-1

★**SEWAGE TREATMENT SYSTEM**— **Seattle, Wash.**

Award to Jack Fast, 22 Etruria, Seattle, $6,044, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., (Box 90007), for construction of sewage treatment system and toilet room addition for RCAG facility at Seattle-Tacoma Airport, Seattle; Proposal 4-59-945. Bids opened September 20. CA 10-14. Previous report 9-26

★**STANDPIPES, CABLE**— **Seattle, Wash.**

Award to General Electric Supply Co., 1212 1st S., Seattle, $1,558, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1,200' of 500 MCM underground feeder cable. Award on standpipes has not as yet been made.
PD 10-14. Previous report 10-8

★**APPROACH LIGHTING SYSTEM**— **Seattle, Wash.**

Award to Olson Electric Co., 710 W. 8th, Vancouver, $88,803, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., for installation of new approach lighting system and flasher lighting on AIS structures off south end of N-S runway at Seattle-Tacoma Airport, Highway 99, near Seattle; Proposal 4-59-910. Bids opened September 29.
DM 10-14. Previous report 9-17

★**WELDING MACHINE**— **Seattle, Wash.**

Award to Air Reduction Pacific Co., 3623 E. Marginal Way, Seattle, $1,412, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one Tungsten inert-gas welding machine.
PD 10-2. Previous report 8-26

▲**SEWAGE TREATMENT SYSTEM**— **Seattle, Wash.**

Four bids ranging from a low of $6,044 by Jack Fast, 22 Etruria, Seattle, to a high of $6,371, were submitted to Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., (Box 90007), for construction of sewage treatment system and toilet room addition for RCAG facility at Seattle-Tacoma Airport, Seattle; Proposal 4-59-945. OTHER BIDS: Barfis Company, 3931 Ridgeley Dr., Los Angeles, Calif., $8,880; Dick Dubick Company, 3627 Findlay St., Seattle, $7,800; Butler Construction Co., 3419 13th Ave. S.W., Seattle, $6,371.
CA 10-10. Previous report 9-26

●**REPLACE PIER PROTECTION**— **Seattle, Wash.**

Bids will be opened 2 p.m., October 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for replacing pier protection at West Spokane Street Bridge No. 1 in Seattle; Ord. No. 87486.

Plans and specifications available on and after October 13 in room 404 County City Bldg., Seattle.

Project includes removal of existing piling and timber piling and replacing with 4,500' treated piling in place; 15,000' board feet treated timber in place. PD 10-10

●**STREET WIDENING**— **Seattle, Wash.**

Bids will be opened 2 p.m., October 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for widening E. 41st St. et al; Ord. No. 87251.

Plans and specifications available on and after October 13 in room 404 County City Bldg., Seattle. $10 deposit.

Quantities: 3,700' integral curb type A 8" face; 3,000 sq. yd. of 6" concrete base, class 3; 1,040 ton asphaltic concrete paving; 950 sq. yd. concrete sidewalks; various appurtenant items. PD 10-10

●**SEWER RECONSTRUCTION**— **Seattle, Wash.**

Bids will be opened 2 p.m., October 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for reconstruction of Mills St. sewer; Ord. No. 87247.

Plans and specifications available on and after October 13, in room 404 County City Bldg., Seattle. $10 deposit.

Quantities: 315' of 8", 190' of 18", 350' of 24" clay or concrete pipe; 265' of 20" cast iron pipe; seven manholes; reconnecting with side sewers; miscellaneous appurtenant work. PD 10-10

●**ALLEY PAVING**— **Seattle, Wash.**

Bids will be opened 2 p.m., October 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for paving alleys in Block 7, Greenwood Park Addition, et al; Ord. No. 87545, LID 6190.

Plans and specifications available on and after October 13 in room 404 County City Bldg., Seattle. $10 deposit.

Quantities: 2,120 c.y. earthwork excavation; 7,800 sq. yd. of 6" thick cement concrete; 50' integral curb type A, 6" face; 15 c.y. concrete underpinning; miscellaneous appurtenant items. PD 10-10

▲**STEAMPLANT INTER-CONNECTION**— **Seattle, Wash.**

Three firms submitted bids at October 8 bid opening to Boeing Airplane Co., Plant 2, Seattle, for North Field steamplant interconnection. BIDS: L. G. Massart Plumbing and Heating, 4501 9th N.W., Seattle, $79,463 (basic, 95 calendar days underground installation), $83,163 (basic A, 70 calendar days underground installation), $84,105 (alternate 1, 95 calendar days underground installation), $87,805 (alternate 1-A, 70 calendar days underground installation); Navarre Plumbing and Heating Co., Inc., 3839 Stone Way, Seattle, $97,495, $99,708, $102,970, $102,450; University Plumbing and Heating Co., 3941 University Way, Seattle, $106,500, $108,700, $108,214, $108,600. PD 10-10

▲**BRIDGE**— **Seattle, Wash.**

Bids received by King County Commissioners, 402 County City Bldg., Seattle, for reconstruction of Lake Wilderness Overcrossing, Bridge No. 3902 over the Pacific Coast Railway in Section 21, Township 22 N.R., 6 E.W.M., King County.

Fourteen bids ranging from a low of $38,865, by Lake City Gravel and Materials, 3215 E. 123rd, Seattle, to a high of $57,360, were submitted to King County Commissioners, 402 County City Bldg., Seattle, at October 14 bid opening.

OTHER BIDS: Einar Johnson & Co., Route 4, Box 466, Puyallup, $40,388; Troy T. Burnham, 18666 Beverly Road, Seattle, $41,005; West Coast Construction Co., Inc., 835 W. 48th, Seattle, $42,305; Puget Construction Co., Inc., 1811 Bush Place, Seattle, $44,526; S & C Construction Co., 4502 51st S.W., Seattle, $46,926; Latimer-Kurth, Inc., 1509 100th S.E., Bellevue, $48,738; Allyn & Noah, 14242 Pacific Highway S., Seattle, $49,256; Dale M. Madden Construction Co., 3010 E. 163rd, Seattle, $50,752; Hansen Bros., Box 327, Buckley, $50,900; J. A. Parks, Box 740-A, Winslow, $52,278; Willar Construction Co., 9709 Greenwood Ave., Seattle, $53,886; Wayne Construction Co., 4242 22nd W., Seattle, $57,360.
PD 10-15. Previous report 10-3

●**LOCK GATES (Painting)**—**Seattle, Wash.**

Bids to be opened 2 p.m., P.S.T., October 23, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for painting of upper service gates for the large lock at Hiram M. Chittenden Locks, Seattle; CIVENG-45-108-59-13. Plans with above office. Bid bond 20%. Completion time November 14. Approximate area to be cleaned and painted is 4,700 sq. ft. on each gate. DM 10-15

●**PIPE SAW**— **Seattle, Wash.**

Bids will be opened 10 a.m., October 22, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one Wachs pipe saw. Specifications with above office. PD 10-15

▲**FURNISH PUMP UNITS**— **Seattle, Wash.**

Eight bids ranging from a low of $22,879 ($21,681 alternate), by Worthington Corp., 2616 Western Ave., Seattle, to a high of $29,932 were submitted to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing two electric driven pumping units. Bids opened October 14.

OTHER BIDS: H. D. Fowler Co., Inc., 901 Lane, $24,128; Allis-Chalmers Mfg. Co., White-Henry-Stuart Bldg., $24,128; Ingersoll-Rand Co., 526 1st Ave. S., $24,353; Fairbanks,

Morse & Co., 668 Lane, $26,533; Atlas Equipment Co., 620 Maynard, $26,800; C. H. Wheeler Mfg. Co., 19th St. and Lehigh Ave., Philadelphia, Pa., $26,820; A. H. Cox & Co., 1757 1st S., $29,932. Of Seattle except as noted. PD 10-15. Previous report 9-23

● METERS— Seattle, Wash.

Bids will be opened 10 a.m., October 20, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing of five Hersey water meters. Specifications with above office. PD 10-15

▲ DRAINING, GRADING, SURFACING— Seattle, Wash.

Bids received by King County County Commissioners, 402 County City Bldg., Seattle, for draining, grading and crushed stone surfacing 0.76 mi. on S.E. 288th St. (from 132nd Ave. S.E. to 114th Ave. S.E.) and 1.18 mi. of 132nd Ave. S.E. (from vicinity of S.E. 244th St. to S.E. 208th St.), King County.

Nine firms submitted bids at the October 14 bid opening. BIDS: J. E. Work, Inc., 1040 159th Place S.E., Bellevue, $23,733 (132nd St.), $16,613 (288th St.); Anderson & Johnson, 11037 Roosevelt Way, Seattle, $21,243, $15,659; Pacific Construction Co., 121 River St., Seattle, $25,988, $17,191; L. L. Newburn, 6262 14th S., Seattle, $32,024, $23,900; Excavators, Inc., 5756 29th N.E., Seattle, $20,956, $18,032; Bass Construction Co., 12526 Aurora Ave., Seattle, $24,468, $18,327; W. J. Halleran, 416 Virginia, Seattle, $23,274, $16,378; I. A. Simons, Alderwood Manor, $28,132, $18,877. PD 10-15. Previous report 10-3

● COPPER WIRE— Seattle, Wash.

Bids will be opened 10 a.m., October 23, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 200,000 lb. copper wire. Specifications with above office. PD 10-15

▲ HYDRAULIC CRANE— Seattle, Wash.

Air Mac, Inc., 3838 4th S., Seattle, $3,490 (after trade-in), submitted the low bid to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one hydraulic crane suitable for mounting on a two-ton truck. Bids opened October 14. OTHER BID: Nelson Truck Equipment Co., Inc., 128 Westlake N., Seattle, $4,347 (after trade-in). PD 10-15. Previous report 10-2

● TELEMETERING EQUIPMENT— Seattle, Wash.

Bid opening extended from October 14 to 10 a.m., October 30, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one lot of supervisory control and telemetering equipment. PD 10-15. Previous report 10-2

▲ CHAIN LINK FENCE— Seattle, Wash.

Five bids ranging from a low of $1,679 by Anchor Fence Division, 4502 14th N.W., Seattle, to a high of $1,947 were submitted to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing and installing chain link fencing at South Park Playfield, Seattle. Work includes 256' of 10' high and 60' of 6' high chain link fencing, two corner posts, one terminal post, one softball backstop with wing fences. PD 10-15. Previous report 9-27

● BRIDGE— Skamania County, Wash.

Bids to be opened 2 p.m., October 24, by U. S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland, Ore., for construction of Trout Lake Creek Bridge on Grand Meadows Road N85, Gifford Pinchot National Forest, Skamania County, Wash.; Bid No. R-6-59-129. Plans with above office or with forest supervisor, 801 W. 8th, Vancouver. Certified check, cashier's or bid bond 5%.

Quantities: 107 c.y. unclassified excavation for structures, backfill; 17.4 c.y. concrete class A (substructure only); 20 units concrete class A (deck slab); 1,600 lb. reinforcing steel (substructure only); 1,600 lb. structural steel; 10 MBM treated timber; 152' beam type safety guard rail. DM 10-11

★ RIPRAP— Snohomish County, Wash.

Award to Maurice Anderson Trucking Co., Route 3, Box 602, Everett, $2,050, by Soil Conservation District, Snohomish, for placing 820 c.y. rock riprap on left bank of Koch's Slough in northwest quarter of Section 12, Township 31, North Range 5, East W.M., on the Husby property; River Maintenance Agreement No. 120-58. Bids opened September 26. CA 10-14. Previous report 9-13

STATE HIGHWAY PROJECT (District Project)— Spokane, Wash.

Bids were rejected by Washington State Highway Commission on highway construction on which bids were opened October 2 by D. E. Stein, district engineer at the district office, N. 2714 Mayfair, Spokane. The low bidder was Standard Asphalt Paving Co., Inc., N. 119 Post, Spokane, $10,960.

SURFACING, PAVING, Riverside State Park Road—Bituminous surface treatment, Class B on 4.22 mi. and bituminous surfacing treatment Class B and plantmix bituminous paving on 9.5 mi. of the sections from Elliott Drive to Nine Mile and Downriver Drive to Seven Mile, in Spokane County; a State Project. DM 10-15. Previous report 10-4

● REGULATING BASIN TEST BORINGS— Tolt River, Wash.

Bids will be opened 2 p.m., October 22, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for Tolt River regulating basin test borings; Ord. No. 87468-D.

Plans and specifications available on and after October 13 in room 404 County City Building, Seattle. $10 deposit.

Work involves eight test holes, approximately 1,000' of test hole drilling, 200 drive samples and 10 seamless tube holes. PD 10-10

★ DRILL WELL— Toppenish, Wash.

Award to Midland Drilling Co., Box 637, Walla Walla, $19,923, by City Council, Aleta Bennet, city clerk, City Hall, Toppenish, for drilling and testing deep well. Above company submitted only bid received at October 7 bid opening. IG 10-14. Previous report 9-26

● GLUED LAMINATED STRINGERS— Twisp, Wash.

Bids will be opened 11 a.m., P.S.T., October 21, by U. S. Forest Service, G. L. Mercer, purchasing agent, 729 N.E. Oregon St., room 201, Portland, for furnishing 12.1 MBM prefabricated, treated glu-lam stringers, fob. bridge site, approximately 12 mi. west of Twisp, Okanogan National Forest, Wash.; Inv. No. R6-59-130. WB 10-10

★ RAILROAD SPUR— Vancouver, Wash.

Award to A. D. Ford & Son, 2535 N.W. Upshur St., Portland, $7,075, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for rehabilitation of railroad spur track at East Warehouse, Vancouver Shipyard, Vancouver, Wash.; Inv. No. 8876. WB 10-14. Previous report 10-8

★ SEWER— Walla Walla, Wash.

Award to John M. Keltch, Box 504, Pasco, $40,520, by City Commissioners, City Hall, Walla Walla, for construction of 6,220' of 8" sewer; 4,000' of 4" side sewer; 10,220' of excavation and backfill; 9 manholes between 2nd and 3rd, et al. Bids opened October 1. CA 10-14. Previous report 9-16

▲ GRADING— Wenatchee, Wash.

Four bids ranging from a low of $55,641 by Murphy Bros., E. 3728 Broadway Ave., Spokane, to a high of $67,884, were submitted to Chelan County Public Utility District No. 1, 327 N. Wenatchee Ave., Wenatchee, for performing east bank switchyard grading work for the Rocky Reach Hydroelectric Power Project. Bids opened October 10. CA 10-14. Previous report 9-12

▲ POWER LINE— Yakima, Wash.

Ten bids ranging from $12,523 by Power City Electric, Inc., N. 920 Howard, Spokane, to a high of $23,010, were opened by R. H. Pyle, district engineer of Washington State Highway Commission, district office, Yakima, on October 9, for construction of power line along 3.4 mi. of PSH 3, Squaw Creek to Roza Camp, Kittitas County; a State Project. 2ND LOW: Witzig Construction Co., 223 S. 4th, Corvallis, $12,850; 3RD LOW: Anderson-Burke, Box 4085, Seattle, $12,900. IG 10-11. Previous report 9-23

■ DRAINAGE SYSTEM— Yakima, Wash.

Planholders announced on construction of an underground drainage system on the west boundary of Yakima, inside and outside of the city limits for Drainage Improvement District No. 48. The work is offered in two alternates, 1—concrete pipe, 2—corrugated metal pipe. Bids will be opened 11 a.m., October 22, by Yakima County Commissioners, Courthouse, Yakima. Bids to be taken on one or both alternates. Plans obtainable from Gray & Osborne, consulting engineers, 228 S. 2nd, Yakima. $15 deposit. Certified check or cashier's check 5%.

Planholders: DeBlasio Bros., Route 4, Yakima; E. M. Gostovich, Box 264, Sunnyside; Nat Kimball, 1019 Pleasant Ave., Yakima; W. M. McConnachie, 2 Roza Vista Drive, Yakima; Union Concrete Pipe Co., Parker; Yakima Cement Products, Box 436, Yakima; Ralph Nickerson, Goldendale; Contractors and Excavators, Warden; Armco Drainage and Metal Products, Box 1009, Yardley; Beall Pipe and Tank Co., 12005 N. Burgard, Portland, Ore.; Max Schriner, Box 538, Ontario, Ore.; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Thorburn & Logozzo, 4608 36th S.W., Seattle; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; Murphy Bros., Box 2193, Spokane; National Construction Co., 153 S. 160th, Seattle; Louis Elterich Co., Box 868, Port Angeles. IG 10-14. Previous report 10-8

● IRRIGATION— Yakima, Wash.

Bids to be opened 2 p.m., October 24, by Ahtanum Irrigation District, 506 Miller Bldg., Yakima, on construction of diversion works, control works and appurtenances. Plans with above office. $20 deposit.

Quantities: 310 c.y. excavation; 55 c.y. concrete; 6,400 lb. reinforcing steel; 2,400 lb. structural steel; two 6'x3' radial gates. DC 10-15

IDAHO

● STATE HIGHWAY PROJECTS— Boise, Idaho

Bids to be opened 2 p.m., October 28, by Idaho Department of Highways, 603 Main St., Boise, for the following construction project.

ROADWAY, Plaza Road — Constructing roadway and select borrow base south of Black Canyon Dam, Gem County; FAP No. DS-3838(2).

Quantities: 115 c.y. structure excavation; 7,000 c.y. unclassified excavation; 100 c.y. borrow; 3,200 ton select borrow class B; 258 Y.U. haul; 325 M gal. watering; 500' small ditch; 492' pipe culvert; 2,000' wire fence; one 18" precast concrete headgate. Completion time September 1, 1959. DM 10-14

● STATE HIGHWAY PROJECTS— Boise, Idaho

Bids to be opened 2 p.m., November 4, by Idaho Department of Highways, 603 Main, Boise, on three highway construction projects. Plans with above office. $5 charge. Proposal guarantee 5%.

CORRUGATED PIPE, St. Maries - Avery Road—Furnishing and placing 144" corrugated plate pipe at Rochat Creek, Benewah County; FAP No. DS-5711(1).

Quantities: 120 c.y. structure excavation; 850 c.y. borrow; 60 Y.U. haul; 670 c.y. mechanical tamping; 80' of 144" corrugated plate pipe, 10 gauge; 65 c.y. special backfill class A. Completion time September 1, 1959.

SURFACING, Rogerson-Cedar Creek Road, Cedar Creek - Salmon Dam — Constructing crushed gravel base on 5.114 mi., Twin Falls County; FAP No. DS-2701(2).

Quantities: 857 M gal. watering; 12,000 c.y. stripping materials deposit; 7,700 ton crushed gravel base course type B, 3/4" max.; 17,200 ton same, 2" max.; two project markers; one 24' cattle guard. Completion September 15, 1959.

SURFACING, DRAINAGE, Council-Hornet Creek—Constructing roadway, drainage

structures, crushed gravel base on 2.231 mi. and roadmix bituminous surfacing on 0.696 mi. of Hornet Creek Road, Adams County; FAP Nos. S-3894(2) and DS-3894(3).

Quantities: 22,300 c.y. unclassified excavation; 270 c.y. structure excavation; 6,800 c.y. borrow; 13,500 ton select borrow class A; 2,930 Y.U. haul; 28 stations of interceptor ditches; 6,800 ton crushed gravel base type B, ¾" max.; 2,098' of 12" to 36" pipe culvert; 1,580 ton crushed gravel surfacing in windrows; 3,850 gal. RC-1 asphaltic road material for prime; 34 ton blotter material; 72 ton MC-3 asphaltic road material for roadmix; 270 ton mix and place bituminous surfacing for approach roads; 2,400 gal. RC-5 asphaltic road material for seal; 120 ton cover coat material. Completion August 1, 1959. DM 10-14

●**EXPLORATORY DRILLING—**
Bruces Eddy Dam, Idaho

Bids will be opened 2 p.m., P.S.T., October 21, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, Wash., for exploratory drilling at Bruces Eddy Dam and Reservoir on North Fork Clearwater River, Clearwater County, near Orofino, Idaho; CIVENG-45-164-59-22. Plans with Walla Walla office. Bid bond 20%.

Project involves 980' advancing hole with drive sampling; 400' same without sampling; 3,200' core drilling, vertical NX; 1,200' same, inclined NX; 100' same, vertical BX; 100' same inclined BX; 250' casing left in hole; 700' of observation pipe.

Project is located on shores of North Fork of Clearwater River in vicinity of Ahsahka, Idaho, about 1.9 river mi. upstream from confluence of the North Fork and the Clearwater River. DM 10-11

SEWAGE DISPOSAL SYSTEM—
Genesee, Idaho
(Estimated cost $52,000)

An election will be held in Genesee on November 4 on a $39,000 bond issue that would help finance construction of a sewage disposal plant in Genesee. Plans by Walter Woodward, Empire State Bldg., Spokane, call for a lagoon-type sewage disposal unit with lift station and outfall line. A $13,000 Federal grant is available if bond issue is approved. MH 10-4

SEWAGE TREATMENT PLANT—
Grace, Idaho

Village of Grace has set November 18 as the date for an election on $170,000 bond issue that would provide funds for a complete sewer system and sewage treatment plant for the city. Engineer is Wendell Smith, Preston. GH 10-14

CLEARING, GRADING, DRAINING—
Idaho County, Idaho

A new bid call will be issued on a date as yet undetermined by U.S. Forest Service, 1036 Federal Bldg., Missoula, Mont., on clearing, grading, draining and surfacing 2.537 mi. of roadway, Big Elk Creek Road No. 646 (Section A), Nezperce National Forest, Idaho County, Idaho; Inv. No. 80-59. Bids were rejected following an opening held September 30. At that time the low bid was $149,937 by Forrest Pumnear, 1723 Montana Ave., Coeur d'Alene.
DM 10-15. Previous report 10-8

WASTE DISPOSAL FACILITY—
Idaho Falls, Idaho
(Estimated cost $6,000,000)

Construction has started on a large-scale pilot plant at the Atomic Energy Commission's National Reactor Testing Station, Idaho, for drying and reducing the volume of high-level radioactive liquid waste products.

Excavation work is underway by Fluor Corp., Ltd., Los Angeles, Calif., on the Waste Calcination Facility, as part of a general contract for the design and construction of waste disposal facilities at the Idaho atomic installation. The firm's basic contract was amended to provide $3,391,700 for construction of the plant, the total cost of which is estimated at $6,000,000.

Fluor will construct a waste treatment plant and concrete storage vault for storing solid plant wastes; will install special waste handling equipment for liquids, solids and solid-sampling equipment. Completion is scheduled for January 31, 1960.

Conceptual design was jointly developed by the Commission, Fluor and Phillips Petroleum Co. Fluor performed the engineering and did the detailed drafting. DM 10-14

★**CRUSHED AGGREGATE—Lewiston, Idaho**

Award to Lewiston Pre-Mix Concrete, Inc., 11th and 27th streets, Lewiston, $1.15 (delivered), $0.82 (at crusher), by City Controller, City Hall, Lewiston, for 10,000 tons of crushed aggregate in stockpile. Stockpile site is located on the north side of 16th Ave. and west of 7th St. CA 10-14

★**FENCING— Moscow, Idaho**

Award to Jensen-Byrd Co., Spokane (mailing address c/o University of Idaho) $912 by L. C. Warner, University of Idaho purchasing agent, 203 Administration Bldg., campus, Moscow, for furnishing steel fencing; Inv. FO-3281. Bids opened October 10.
DM 10-14. Previous report 9-30

STREET IMPROVEMENT—
Mountain Home, Idaho

A special election on a $125,000 general obligation bond issue to finance street improvements, has been postponed due to legal difficulties. The City Council, City Hall, Mountain Home, had slated the election for early in October. A new date will be set after the November general election.

The bonds would pay for paving, construction of sidewalks and curbing in various sections of the city.
DC 10-10. Previous report 9-20

▲**SEWAGE PLANT, SEWERS—**
Payette, Idaho

Low bids announced by City Council, City Hall, Payette, for construction and extension of a sewage disposal plant and sewage system. Bids opened October 7. Plans by Wendell H. Smith, consulting engineer, Route 2, Preston. LOW BIDS—Sewer Lines: Intermountain Construction Co., Box 1879, Boise, $273,122. Disposal Plant: Davis Construction Co., no address, Idaho Falls, $198,376. PC 10-11. Previous report 9-20

★**CLEARING, GRADING, DRAINING—**
Shoshone County, Idaho

Award to Rocky Mountain Construction Co., Bitterroot Road, Missoula, $280,160, by U.S. Forest Service, 1036 Federal Bldg., Missoula, for road construction, clearing, grading and draining 6,920 mi. of roadway, Quartz Creek Project No. 339 (Sec. A), St. Joe National Forest, Shoshone County, Idaho; Bid No. 74-59. Six bids received at October 6 bid opening. 2ND LOW: John Paole, 769 N. Main, Kalispell, $318,035.
PD 10-11. Previous report 9-9

MONTANA

●**PAINTING STANDPIPE—Billings, Mont.**

Bids to be opened 5 p.m., October 28, by City Council, City Hall, Billings, for painting and cleaning standpipe at 9th St. W. and Avenue C, Billings. Plans with city clerk. Work will include sandblasting floor, walls, roof and other interior metal surfaces to white metal condition, applying minimum of three coats of painting.
EE 10-14

★**PAVING, CURB, GUTTER—Billings, Mont.**

Award to Barry O'Leary, Inc., 215 N. 16th, Billings, $9,266 (paving alley in SID No. 729) and $2,092 (curb, gutter in SID 730) by

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City Council, Billings. Bids were opened October 7. EE 10-15. Previous report 9-23

● POWERPLANT, SWITCHYARD— Fort Peck, Mont.

Bids will be opened 2 p.m., M.S.T., November 20, by Corps of Engineers, in office of the area engineer, Garrison District, Fort Peck, for construction of powerhouse and switchyard for a second power plant on Missouri River, at the Fort Peck Power Plant, about 20 mi. southeast of Glasgow, McCone County, Mont.; CIVENG-32-015-59-4. Plans with Fort Peck office. Completion time June 1, 1962.

Principal features of work involve: unwatering and removal of cofferdam; reinforced concrete; structural steel and miscellaneous metal work; building construction; mechanical systems and hoists; installation of Government-furnished equipment; electrical work; switchyards and overhead lines; modifications to existing powerhouse; miscellaneous work; painting.

Quantities: 8,270 c.y. mass concrete; 24,000 c.y. general concrete; 564 c.y. concrete in switchyard foundations; 23 c.y. concrete for blockouts; 20 c.y. concrete in equipment bases; 390 c.y. miscellaneous exterior concrete; 45 c.y. removal of existing concrete; 44,600 bbl. portland cement; 1,975,000 lb. bar steel reinforcement; 10,900 lb. mesh steel reinforcement; 890' of type A, 465' of type B, 245' of type C, 370' type D, 50' type X, 60' of type Y waterstop; 650' drilling holes for dowel bars; 760 sq. ft. abrasive floor finish; 10,700 sq. ft. hardened and colored finish; 13,750 sq. ft. hardened finish; 2,450 sq. ft. separate concrete floor finish; lump sum for structural steel; 84,750 lb. miscellaneous metal. 1,000 lb. conduit, corrosion resisting metal; 450 lb. nonmetallic conduit; 300 lb. flexible metal conduit; 110,000 lb. rigid metal conduit; 2,370' railroad spur and transfer track.

Lump Sum Bids—unwatering and removal of cofferdam and miscellaneous work, architectural metalwork, building construction, copper and built-up roofing and precast concrete slab, freight elevator and passenger manlift, jib crane and monorail hoist, heating and ventilating systems, sanitary and treated water systems, raw water system and gas piping, unwatering and station drainage system, compressed air systems, oil systems, piezometer and hydraulic gauge piping, carbon dioxide systems, installing 55,000 hp turbines, installing governors, installing powerhouse crane, installing draft tube gantry crane and lifting beam, installing draft tube gates and guides, installing generator foundation bolts and sole plates, unload and store generators, conduit fittings and outlet boxes (cast ferrous), cabinets and special boxes (sheet metal), control cable wiring, power cable and wiring, potheads, lighting system (except switchyards), floor lighting system, extensions to telephone and code call system, grounding (except switchyards), cable tray systems, 13.8 kv bus extension and cable supports, miscellaneous station service equipment, installing main and autotransformers, installing oil circuit breakers, installing indoor 15 kv equipment, installing outdoor same, installing instrument and control switchboards and modifying existing boards, auxiliary electrical equipment, main leads for generator No. 1, switchyard steel structures and equipment, switchyard buses and miscellaneous electrical equipment; switchyard revisions; conduit system, lighting system, grounding system, fence, exterior drainage systems, switchyard surfacing, earthfill and seeding penstock deck, bituminous surfacing, painting, modifications to existing powerhouse, membrane waterproofing. DM 10-10. Previous report 5-20

■ POWERPLANT, SWITCHYARD— Fort Peck, Mont.

Planholders announced on construction of powerhouse and switchyard for a second power plant on Missouri River, at the Fort Peck Power Plant, about 20 mi. southeast of Glasgow, McCone County, Mont.; CIV-ENG-32-015-59-4. Bids to be opened 2 p.m., M.S.T., November 20, by Corps of Engineers, Garrison District, Fort Peck.

Planholders: Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco, Calif.; A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland, Ore.; M. M. Barker & Co., Inc., Box 1472, Great Falls, Mont.; J. B. Beaird Co., Inc., 6200 St. Vincent Ave., Shreveport, La.; Donovan Construction Co., 333 Griggs-Midway Bldg., St. Paul, Minn.; The Delaney Co., Box 16146, Houston, Tex.; Eichleay Corp., 1180 Richard Ave., Santa Clara, Calif.; Eagle Construction Corp., Box 181, Loveland, Colo.; E-W Construction Co., Box 1637, Moses Lake, Wash.; Fegles Construction Co., 711 Wesley Temple Bldg., Minneapolis, Minn.; Howard P. Foley Co., 228 Isabella, Pittsburgh, Pa.; Foley Bros., Inc., 900 New York Bldg., St. Paul, Minn. Gunther & Shirley Co., 4560 Sherman Oaks Ave., Sherman Oaks, Calif.; Grove, Shepherd, Wilson & Kruge, Inc., Box 631, Birmingham, Ala.; Southern Constructors, Inc., Box 68, Rossville, Ga.; Green Construction Co., 20 N. San Mateo Drive, San Mateo, Calif.; Wismer & Becker, Box 1168, Sacramento, Calif.; H. Halvorson, Inc., 11 N. 5th, Grand Forks, N. Dak.; Butler Construction and Engineering Co., 3419 13th S.W., Seattle, Wash.; A. J. Cheff Construction Co., 10054 W. Marginal Way, Seattle, Wash.; J. G. Watts Construction Co., Route 1, Box 300, Salem, Ore.; Scheumann & Johnson, 1014 Lloyd Bldg., Seattle, Wash.; United Construction Co., Box 1000, South San Francisco, Calif.; Hartwell Dam Contractors, 662 Russ Bldg., San Francisco, Calif.; Tullar Power Construction Co., Box 4051, Seattle, Wash. DM 10-11. Previous report 10-10

FORT PECK POWERHOUSE

A prebid conference will be held 2 p.m., M.S.T., October 21 by Corps of Engineers in the conference room of the Administration Bldg., Fort Peck Area, Fort Peck, Mont., on all phases of work involved in construction of the powerhouse and switchyard for the second power plant at Fort Peck and Reservoir. Interested bidders should contact chief of the construction division, Corps of Engineers at Fort Peck area, Riverdale, North Dakota.

▲ ASPHALT PLANT— Great Falls, Mont.

Bids received by Cascade County Commissioner, Courthouse, Great Falls, for furnishing one continuous mix, portable, single aggregate asphalt plant containing aggregate dryer, feeder with hopper, elevators and mixer. Entire plant to be powered by two gasoline engines. Bids opened October 7. ONLY BIDS: Normont Equipment Co., 1157 Smelter Ave., $15,670; Western Construction Co., 2322 River Dr., $31,929; Miller Machinery Co., 1610 River Dr., $31,929. All of Great Falls. CA 10-10

● T-VOR FACILITY (Directional Range, Electrical Equipment)— Kalispell, Mont.

Bids will be opened 4 p.m., October 28 by Flathead County Clerk, Courthouse, Kalispell for Sched. 1—construction of VHG Omnidirectional Range (VOR) Station of 50 watts power output rating complete with shelter and ventilation equipment, dual transmitting equipment with automatic changeover equipment, monitor, automatic line voltage, regulator, slotted type antenna with obstruction light, complete equipment for remote control operation including interphone for communication between the station and the remote control position, and Sched. 2—installation and final type-up in compliance with Civil Aeronautics Administration technical standards. The installation will be at the Flathead County Airport. RB 10-11

WATER SYSTEM— Kalispell, Mont.

Several improvements to the municipal water system are being considered by the Kalispell City Council and Mayor Claude Walter. Action on the proposals is expected at a special council meeting October 20. If all the project improvements are approved, an expenditure of about $300,000 would be involved and a bond election would be necessary. As outlined by City Engineer L. B. (Pete) McClintick, the proposals and preliminary cost estimates are as follows: Covers for the two city reservoirs, $100,000 to $125,000; a new 18-inch main from the reservoirs down Meridian road to interconnect with the city distribution system, $150,000; and extensions of the distribution system to the Underhill and Adams additions, $12,785 and $32,500 respectively. The new main on Meridian would be principally a fire safety measure, giving the city an alternate trunk line to the water system in event of a break in the existing single main from the reservoirs. It would also serve new residential areas on the west side. RB 10-15

★ BRIDGE APPROACHES— Noxon Rapids, Mont.

Award to Bud King Construction Co., 1203 Wyoming, Missoula, $52,000, by Washington Water Power Co., W. 825 Trent, Spokane, for construction of bridge approaches in connection with the multi-million dollar highway and railway relocation job made necessary by construction of the Noxon Rapids Dam on the Clark Fork River in Montana.

This is the final project on the highway and railway relocation.

Six and one-half mi. of U.S. 10-A were relocated at a cost of about $3,600,000. This included two railroad overpasses and one bridge crossing the Clark Fork River. Seventeen mi. of the Northern Pacific Railroad's main line were relocated at a cost of about $16,000,000. Relocation of county roads that will be flooded out in the dam's reservoir area, cost about $1,500,000.

The Noxon Rapids hydroelectric project is now about three-quarters complete. When finished, it will represent an investment of $87,000,000. DM 10-15

WATER SUPPLY SYSTEM— Opheim AFS, Mont.

Bids will be called soon and will be opened late in October for installation of well pump, pump pit and supply line to existing reservoir plus related electric power and control work for the water supply system, Well No. 5 at Opheim Air Force Station, Mont.; ENG-45-108-59-19. Bids will be opened by Corps of Engineers, 4735 E. Marginal Way, Seattle. Completion time 120 calendar days. DM 10-14

★ FURNISH PLANKS, STEEL— West Glacier, Mont.

Award announced by Glacier National Park, E. A. Hummel, superintendent, West Glacier, for furnishing 15,000' of bridge planking and structural, channel, square bar and plate steel for the park service. Six bids received at bid opening. AWARDS— PLANKS: F, K & L Lumber Co., Martin City, $937. STEEL: Great Falls Iron Works, 1315 8th Ave. N., Great Falls, $2,344. RB 10-14

ALASKA

★ TELEPHONE CABLE— Anchorage, Alaska

Award to Chisum-Langlais Construction Co., 1576 F St., Anchorage, $109,382, by City Council, Anchorage, for installation of about 96,000' of outside telephone feeder and distribution cable.

AL 10-15. Previous report 10-9

● REDECKING BRIDGES— Juneau, Alaska

Bids to be opened 11 a.m., P.S.T., October 28, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for redecking and renovating the abutment of the existing Salcha River Bridge, Mile 323 on the Richardson Highway, and redecking the existing Tanana River Bridge, Mile 275 on the Richardson Highway; Projects DF-062-4(8) and DF-062-3(3). Plans obtainable at 311 Federal Bldg., Juneau. Bid guarantee 5%.

Quantities: 123,580 MBM treated timber, creosote pressure; dismantling existing bridge decks; 550 c.y. loose riprap. DM 10-14

● GRADING, DRAINING, BITUMINOUS SURFACING— Juneau, Alaska

Bids to be opened 11 a.m., P.S.T., October 29, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for grading, drainage, bituminous treatment 9.6 mi. of Wasilla-Big Lake Junction Road; Proj. DS-0510(5). Plans

obtainable in 311 Federal Bld., Juneau. Bid guarantee 5%.

Quantities: 186,374 c.y. unclassified excavation; 49,000 c.y. borrow excavation, Case 1; 41,676 ton crushed aggregate base, grading D-1; 3,385 ton aggregate AT-50, bituminous surfacing treatment; 264 ton asphalt, grade RC-3, bituminous surface treatment.

DM 10-14

●GRADING, DRAINING— Juneau, Alaska

Bids to be opened 11 a.m., P.S.T., November 4, by Bureau of Public Roads, 319 Federal Bldg., Juneau, for grading and drainage of 0.9 mi. of Glacier Highway, Thane Extension, beginning 0.5 mi. southeast of Sheep Creek and ending at Little Sheep Creek; Proj. DS-0975(1). Plans obtainable at 311 Federal Bldg., Juneau. No charge. Bid guarantee 5%.

QUANTITIES: 9.5 acre clearing; 6 acre grubbing; 33,500 c.y. unclassified excavation; 10,500 c.y. borrow excavation, Case 1.

DM 10-15

▲GRADING, DRAINING— Juneau, Alaska

Bids were opened October 14 by Bureau of Public Roads, 319 Federal Bldg., Juneau, on grading and draining 3.6 mi. Glacier Highway beginning at Tee Harbor and extending northerly; AFB 2-F10, G3, and DF-895-4(6). LOW BIDS: Green Construction Co., Box 830, Fairbanks, $732,914; Keil & Peterman, Box 770, Juneau, $733,026; Morrison-Knudsen Co., Inc., Box 320, Anchorage, $746,205. JU 10-15. Previous report 10-8

▲DRAINING, GRADING (Kalinfonsky Road)— Juneau, Alaska

Bids were opened October 14 by Bureau of Public Roads, 319 Federal Bldg., Juneau, for grading, draining 8.2 mi. Kalinfonsky Beach Road beginning south of the Kenai River Bridge on the Sterling Highway and ending on shore of Cook Inlet; Proj. DS-046-3(2). LOW BIDS: M-B Construction Co., 1019 Lloyd Bldg., Seattle, $270,120; Smith-Brown Co., Box 1648, Anchorage, $279,454; Green Construction, Box 830, Fairbanks, $285,248.

JU 10-15. Previous report 10-8

★APPROACH LIGHTING SYSTEM— King Salmon, Alaska

Award to City Electric of Anchorage, Box 3698, Eastchester Br., Anchorage, $133,396, by Civil Aeronautics Administration, contract and purchase section, AN-170-C, Box 440, Anchorage, for construction of a 3,000' high intensity approach system consisting of installing government furnished light units, regulator units and installation of a control system for the approach lights and related work at King Salmon.

AL 10-11. Previous report 9-30

▲POLE LINE REHABILITATION— Ladd AFB, Alaska

Three bids received ranging from a low of $12,325, submitted by Worthington Construction Company of Fairbanks, 1222 Denali Way, to a high of $18,658, were submitted to Corps of Engineers, Alaska district, Box 7002, Anchorage, for (Alaska tactical facilities) pole line rehabilitation at Ladd Air Force Base, Alaska; Inv. No. ENG-95-507-59-34. Bids opened October 7. 2ND LOW: Husky Electric Co., Fairbanks, $12,356. HI: City Electric, 203 Forty-Mile Graehl, Fairbanks, $18,650. Government estimate was $16,408.

Work consists of rehabilitating approximately 1½ mi. of existing 3-phase 12,470/7200-v. pole line, including new crossarms and insulators and additional guying. Bids will be a lump sum basis.

CA 10-10. Previous report 10-4

●AERIAL ELECTRICAL DISTRIBUTION SYSTEM— Ladd AFB, Alaska

Bids to be opened 10 a.m., A.S.T., October 24, by U.S. Air Force, base procurement office, Ladd Air Force Base, Fairbanks, for extension of the base utilities system involving installation of an aerial electrical distribution system to Birch Hall, at Ladd AFB; IFB-65-500-59-45.

Project involves extentsion of 7.2-12-47 kv line from POL road to and including H-frame; installation of five government-furnished transformers; installation of poles for two wire 7.2 kv single phase line up hill; installation of single phase primary 7.2 kv power line including wire and hardware.

DM 10-15

▲BRIDGES— Sitka, Alaska

Bids received by Bureau of Public Roads, 319 Federal Bldg., Juneau, for construction of two bridges located about 4.5 and 7 mi. northwest of Sitka on the Sitka Highway; Proj. AFH 11-E1. Bids were opened October 7. LOW BIDS: C & R Builders, Box 164, Sitka, $85,153; Clyde Franks, Sitka, $95,980; Keil & Peterman, Klein Bldg., Juneau, $117,066.

Quantities: furnish 1,400' structural steel piles 10BP42; drive 38 structural steel piles 10BP42; 249.3 c.y. class A concrete; 47,160 lb. reinforcement steel, intermediate grade.

Bridges will be at Granite Creek and Station 335+00 near Sitka.

JU 10-10. Previous report 10-2

NORTHERN CALIFORNIA

★STORM SEWERS— Berkeley, Calif.

Award to McGuire and Hester, 796 66th Ave., Oakland, $14,444, by City Council, City Hall, Berkeley, for constructing storm sewers on Cragmont Ave. at Bret Harte Road and on Shasta Road between Cragmont and Keeler Aves. in Berkeley. Six bids submitted.

RC 10-18

★GRADING, DRAINAGE, SURFACING— Castle AFB, Calif.

Award to Underground Construction Co., Inc., 807 75th Ave., Oakland, $21,982, by Corps of Engineers, 180 New Montgomery St., San Francisco, for hazard removal, involving grading, drainage facilities, bituminous surfacing, Castle Air Force Base, Merced County, Calif.; ENG-04-203-59-9.

RM 10-18. Previous report 10-11

▲IRRIGATION CANAL— Fairfield, Calif.

Bids received September 30 by Solano Irrigation District, Fairfield, for 5.6 mi. of main canal, 14 mi. of lateral canal, and 3.8 mi. of drainage canal, the first project in the Solano Irrigation District's distribution system, to be completed in 180 working days. Bids will be studied by the District engineer and the Bureau of Reclamation before award is made. BIDS: McGuire and Hester, 796 66th Ave., Oakland, $357,357; Marshall and Haas, 407 Harbor Blvd., Belmont, $392,834; Darkenwald and Vinson, 2131 Fulton Ave., Sacramento, $461,761; Vega Engineering and Grading Co., 1214 Fourth, Berkeley, $525,531. Engineer's estimate $302,230.

RC 10-18

●LEVEE CONSTRUCTION— Fortuna, Calif.

Bids will be opened 2 p.m., P.S.T., November 6, by Corps of Engineers, room 300, 180 New Montgomery St., San Francisco, for construction of a new levee and pilot channel, including excavating river bottom fill, 161,000 c.y. embankment, 29,000 ton riprap on river slope of levee, appurtenant work, Sandy Prairie, Eel River, near Fortuna, Humboldt County, Calif.; CIVENG-04-203-59-55. Specs with above address. Bid bond 20%. Completion time 210 calendar days.

RM 10-18

★LEVEE CONSTRUCTION— Glenn County, Calif.

Award to L. A. and R. S. Crow, 5201 San Fernando Rd., Los Angeles, $833,645, by Corps of Engineers, 1209 Eighth St., Sacramento, for levee construction on right bank of Sacramento River, Sidds Landing to Ord Bend, Mile 177.5 to Mile 184.7, Glenn County, Calif.; CIVENG-04-167-59-4. Bids opened October 2. OTHER LOW BIDS: Elmer G. Wendt, Box 606, Rio Vista, $882,766; Ferry Bros., 5201 San Fernando Rd., Los Angeles, $920,091. Government estimate $938,124.

RM 10-18. Previous report 9-27

★RESERVOIRS— Lassen County, Calif.

Award to Miller's Custom Work & Repairs, Susanville, $11,181, by Bureau of Land Management, 1001 N.E. Lloyd Blvd., Portland, for providing dam and pit type reservoirs in Lassen County, Calif. Bids opened October 10. ONLY OTHER BID: Elmer O. Geissner, Cassel, Calif., $16,001. WB 10-18

★CLEARING RESERVOIR SITE— Lewiston, Calif.

Award to Union Construction Co., Inc., Hammond-Arcade Bldg., Missoula, Mont., $906,915, by Bureau of Reclamation, Box 247, Lewiston, for clearing Trinity Reservoir site, Stuart Fork area downstream to Trinity Dam near Lewiston, Trinity County, Calif.; Spec. 200C-393.

RM 10-18. Previous report 8-30

●TELEPHONE LINE— Mariposa, Calif.

Bids will be opened 10 a.m., P.S.T., November 13, by Mariposa County Telephone Company, Mariposa, Harry Baker, president, for construction of 190.51 mi. of telephone line: 14.62 mi. open wire pole line; 108.09 mi. open wire joint use; 56.68 mi. aerial cable; 11.12 mi. service drops. Specs with Robert Welty, engineer, Box 282, The Dalles, Ore., or above address. $10 charge. Completion time 200 calendar days.

RM 10-18

●SANITARY, STORM SEWERS— Millbrae, Calif.

Bids will be opened 8 p.m., October 21, by City Council, City Hall, Millbrae, for installation of a sanitary sewer and storm sewer near Pinehurst Court in Millbrae Meadows Nos. 1 and 2, Millbrae. Specs with city engineer, 111 Rollins Rd., Milbrae. Certified check, cash, or bid bond 10%. BY 10-18

●SANITARY SEWER— Millbrae, Calif.

Bids will be opened 8 p.m., November 4, by City Council, City Hall, Millbrae, for construction of a sanitary sewer, manholes and appurtenances, Meadows Improvement District, Millbrae; Res. 124. Specs with city clerk, above address, or Lee E. Ham, engineer, 111 Rollins Rd., Millbrae. $10 charge. Certified check or bid bond 10%. Quantities: 3,275' of 8", 1,789' of 10" vitrified clay pipe; 120' of 8", 60' of 10" class 100 cast iron pipe; 21 manholes.

BY 10-18

●PLANTMIXED SURFACING— Pleasant Hill, Calif.

Bids will be opened 11 a.m., October 28, by Contra Costa County Board of Supervisors, Martinez, for plantmix surfacing portions of Poshard St., Soule Ave. and McKissick St., Pleasant Acres Subdivision, Pleasant Hill; Proj. No. 3865-57-1. Specs with Public Works Dept., Box 509, Martinez. $2.50 charge. Proposal guaranty $2,500. Completion time 30 working days. Quantities: 3,200 c.y. roadway excavation; 2,850 ton imported subbase material; 3,060 ton untreated base; 15 ton liquid asphalt, SC-1, and paint binder; 930 ton plantmixed surfacing; 14 c.y. portland cement concrete Class B (valley gutters).

RM 10-18

★PLANTMIX PAVING, CURBS, SIDEWALKS— Redding, Calif.

Award to Morgan Construction Co., Box 904, Redding, $104,530, by City Council, City Hall, Redding, for improving East St., Akard Ave., Placer St. and Athens Ave. in Redding, involving plantmix surfacing, concrete curbs, gutters, sidewalks storm drains.

RM 10-18. Previous report 8-23

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids will be opened 2 p.m., November 12, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects. Plans with state highway engineer, above address.

IV-SON-1-F—Construct channel change at Petaluma Creek and at Willow Brook, three mi. west of Petaluma, Denman Flat, Sonoma County.

I-HUM-977—Repair storm-damaged portion of two-lane highway, 1.7 mi., grading, untreated base surfacing, drainage facilities, Briceland-Thorne Rd. between 5.5 mi. east of Shelter Cove Rd. and west boundary of

Humboldt Redwoods State Park, 2 mi. west of Redway, Humboldt County.

I-HUM-970-971-975—Plantmix surfacing on untreated base and existing base, drainage facilities, 5.1 mi. at three locations, on Elk River Rd. between 1 mi. south and 2.5 mi. south of Eureka, on Kneeland Rd. between Freshwater, 3.9 mi. southeast of Fortuna and Hydesville, Humboldt County.

IV-ALA-1026—Plantmix surfacing on cement treated base and imported subbase material, 0.8 mi., Alvarado-Niles Rd. between Decoto Rd. and Fremont city limits, Alameda County.

IV-SCR-1145—Plantmix surfacing on untreated base, 0.5 mi., Soquel-San Jose Rd. between Soquel Drive and 0.5 mi. north, Santa Cruz County.

III-NEV,SIE-25,83-AB — Construct loadometer stations 0.6 mi. west of Nevada City and 0.5 mi. west of Sierraville, Nevada and Sierra counties.

II-SHA-STATE PARK — Grading, plantmix surfacing on imported base material, parking area and 1 mi. F roadway, construct concrete boat ramp at McArthur-Burney Falls Memorial State Park, Shasta County.

IV-SCL-616—Correct slipout, reconstruct road, 0.2 mi., Summit Rd. at 0.4 mi. south of State Rt. 5 AJ, Santa Clara County.

IV-SON-56-B—Remove timber cattlepasses and culverts, install cattlepasses, four locations between Bodega Bay and Russian River, Sonoma County.

IV-MRN-State Park—Construct entrance road and bridge, grade parking areas, install water systems, construct kiosk, Stinson Beach State Park, Marin County.

PB 10-18

.SEWAGE TREATMENT PLANT, SEWERS— Sacramento, Calif.

(Estimated cost $375,000)

Bids will be opened 10 a.m., October 29, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for sewage pumping and treatment plant, including site work, access road, and appurtenances, and trunk sewers in Highland Estates Sewer Assessment District, Sacramento County. Engineer, Joseph Spink, 907 5th St., Sacramento. Quantities: 1,231' of 10", 780' of 8" vitrified clay sewage pipe; 6 concrete manholes; 50' well construction more than 150' below ground surface. PB 10-18

★PAVING, SIDEWALKS, SEWERS— Sacramento, Calif.

Award to A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $26,891, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for curbs, gutters, side walks, asphaltic concrete paving, sewers, and water distribution system, Campbell Heights Subdivision, Sacramento County. PB 10-18. Previous report 10-4

●PLANTMIX PAVING, SIDEWALKS, SEWERS— Sacramento, Calif.

(Estimated cost $89,000)

Bids will be opened 10 a.m., October 29, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for improvement of Winding Way from San Juan Ave. to Pennsylvania Ave., Sacramento County. Work includes plantmix surfacing, rolled type curbing, concrete sidewalk, sewers. Specs with county engineer Arthur Kiefer, above address. $10 deposit. Quantities: 32,150 c.y. excavation; 1,800 ton pit run; 4,370 c.y. imported subbase material; 8,400 ton untreated rock; 2,950 ton plantmix surfacing; 50 ton liquid asphalt, SC-2; 48 ton of ¼", 80 ton of ½" screenings; 10 ton asphaltic emulsion, RS-2; 64 ton sand; 240' rolled type curbing; 960 sq. ft. concrete sidewalk; 640' of 10" reinforced concrete pipe; 230' corrugated metal pipe, 8" to 24", 16 gage; 53' corrugated metal pipe, 30" and 36", 14 gage; 120' of 54" corrugated metal pipe, 12 gage. PB 10-18

★SEAL COATING, DRAINAGE— Sacramento, Calif.

Award to A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $21,449, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for seal coating, concrete curbs and gutters, drainage, Casa Bella Subdivision improvement, Sacramento County. Engineers, Bailiff and Butz, 8020 Fair Oaks Blvd., Sacramento. PB 10-18. Previous report 10-4

●PAVING, CURBS, SEWERS, WATER DISTRIBUTION— Sacramento, Calif.

(Estimated cost $79,000)

Bids will be opened 10 a.m., October 22, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for improvement of Arden Bluff Subdivision Unit No. 2, Sacramento County, including asphaltic concrete paving, concrete curbs and gutters, drainage, sewers, and water distribution system. Engineer: Joseph Spink, 907 5th St., Sacramento. Quantities: 2,513 c.y. earthwork, excavation; 84,282 sq. ft. of 2" asphaltic concrete pavement, 4" untreated rock base; 5,072' concrete curb and gutter; 346' of 15", 1,066' of 12", 270' of 10" concrete drain pipe; 289' cement concrete pipe, 6"; 4,028' vitrified clay sewer pipe, 6"; 49 vitrified clay sewer services. PB 10-18

●SUBSTATIONS— Sacramento, Calif.

Bids will be opened 10 a.m., P.S.T., October 23, by Sacramento Municipal Utility District, in Engineering Dept., 1708 59th St., Sacramento, for construction of three substations: Los Robles-Marysville, Amador-Power Inn, and Lang & 47th; Inv. No. 5805. Specs with above office. RM 10-18

▲STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids received October 15 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction.

I-TRI-20-C,D—Grading, plantmix surfacing, drainage structures, bank protection, 0.3 mi., three locations between 3.2 mi. east of Humboldt County line and 2.2 mi. east of Burnt Ranch Post Office, Trinity County.

LOW BIDS: Mercer, Fraser Co., 2nd and Commercial, Eureka, $170,068; Granite Construction Co., Box 900, Watsonville, $174,173; E. A. Forde Co., Box 306, San Anselmo, $180,562.

I-MEN-505—Grading roadbed, drainage facilities, reinforced concrete bridge, Longvale Rd. between 7 mi. and 7.6 mi. east of Longvale, Mendocino County.

LOW BIDS: Thomas Construction Co., 4665 E. Hedges Ave., Fresno, $151,198; R. H. Douglas, Box 884, Fortuna, $158,247; Clifford & Bodenhamer, Box 664, Redwood City, $167,857.

I-HUM-1204—Grading approaches, constructing bridge, 0.3 mi., across McMahon Creek, 17.8 mi. south of Bridgeville, Humboldt County.

LOW BIDS: R. H. Douglas, Fortuna, $51,875; John W. J. Petersen, Route 1, Box 83, Loleta, $53,202; Walter H. Lindeman, Route 1, Box 740, Red Bluff, $55,726.

I-LAK-1247—Grading, placing untreated base, medium seal coating, 1.7 mi., Soda Bay Rd. between Soda Bay and Clark Drive, Lake County.

LOW BIDS: Wright Bros., Route 1, Box 226, Gridley, $113,305; W. H. Darrough & Sons, Box 392, Yuba City, $122,019; E. A. Forde Co., Box 306, San Anselmo, $135,458.

III-PLA-37-D—Restoring storm damaged portions of state highway detour, six locations, grading, drainage facilities, plantmix surfacing on untreated base and existing surfacing, between Monte Vista and Alta Rd., Placer County.

LOW BIDS: Smith Weahner, Fresno, $17,319; Fredrickson & Watson Construction Co., 873, 81st Ave., Oakland, $17,333; G. S. Herrington, Box 708, Auburn, $18,193.

III-GLE-531—Grading existing road, placing untreated base over imported subbase material, seal coating, drainage facilities, 1.7 mi. Elk Creek Rd. between 2.2 mi. and 0.5 mi. west of Willows, Glenn County.

LOW BIDS: Baun Construction Co., 3229 W. Dudley, Fresno, $71,757; A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $80,538; M. J. Ruddy & Son, Route 6, Box 1419-A, Modesto, $80,717.

IV-SON-1-D—Installing horizontal drains 2.1 mi. north of Cloverdale, Sonoma County.

LOW BIDS: George F. Casey, 7222 E. Slauson Ave., Los Angeles, $21,600; Hortzontal Boring, South San Francisco, $28,425; J. N. Pitcher Co., 6825 Mission, Daly City, $41,625.

IV-MRN-69-A,SRF — Grading, plantmix surfacing on existing surfacing, untreated base and cement treated base, one reinforced concrete bridge, 2 mi. freeway with frontage roads, streets, and ramps, between Rt. 1 and 0.4 mi. east of Sir Francis Drake Blvd. E., Marin County.

LOW BIDS: Gallagher & Burk, Inc., 344 High St., Oakland, $696,558; McCammon-Wunderlich Co., Box 359, Palo Alto, $696,871; Oscar C. Holmes, Inc., 927 Arguello St., Redwood City, $737,879.

PB 10-18. Previous report 9-27

▲PAVING, CURBS, SIDEWALKS, SEWERS Sacramento, Calif.

Bids received October 15 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for paving, curbs, sidewalks, and sewers, Valkyire Assessment District, Sacramento County. Engineers: Bailiff and Butz, 8020 Fair Oaks Blvd., Sacramento.

ONLY BID: A Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $22,343.

PB 10-18. Previous report 10-11

▲SEAL COATING, SANITARY SEWERS, WATER DISTRIBUTION SYSTEM— Sacramento, Calif.

Bids received October 15 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for constructing roadway improvements, drainage, sanitary sewers, and water distribution system, Western Acres Assessment District, Sacramento County. Engineers: Packard, Muir and Train, Inc., 3260 J St., Sacramento.

LOW BIDS: Granite Construction Co., Box 900, Watsonville, $154,773; John McCosker Inc., 1501 Eastshore, Berkeley, $155,705; A. Teichert & Son, Inc., 1931 Stockton Blvd., Sacramento, $167,828.

PB 10-18. Previous report 10-11

★SUBDIVISION IMPROVEMENT— Sacramento, Calif.

Award to Granite Construction Co., Box 900, Watsonville, $49,804, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for improving South Land Park Terrace Unit No. 27, Sacramento County. PB 10-18. Previous report 10-4

▲CIRCUIT BREAKERS— Sacramento, Calif.

Bids received October 9 by Sacramento Municipal Utility District, 1708 59th St., Sacramento, for furnishing and delivering two 14.4 kv, 4,000 ampere, 1,500 mva air blast circuit breakers, appurtenant equipment, controls for Jaybird Powerhouse, Upper American River Project, El Dorado County, Calif.; Inv. 2105. ONLY BIDS: General Electric Corp., 235 Montgomery, San Francisco, $64,666; Westinghouse Electric Co., 410 Bush, San Francisco, $65,300.

PB 10-18. Previous report 9-20

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened September 24.

IV-MRN-1-A—Plantmix surfacing, truck scale installation between 0.5 mi. north of Forbes Station Overhead and Miller Creek, Marin County. AWARD: Gallagher & Burk, Inc., 344 High St., Oakland, $111,369.

IV-SM-1004—Grading, plantmix surfacing 2.9 mi. of two-lane Sand Hill Road between Whiskey Road and Santa Cruz Ave., San Mateo County. AWARD: L. C. Smith Co., Box 610, San Mateo, $232,961.

PB 10-18. Previous report 9-27

★PARKING AREA— Sacramento, Calif.

Award to McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $19,710, by City Council, City Hall, Sacramento, for constructing parking area at Sacramento Municipal Airport. PB 10-18

★AIRPORT FILL— San Francisco, Calif.

Award to Piombo Construction Co., Box 535, San Carlos, $139,150, by San Francisco Public Utilities Commission, City Hall, San Francisco, for fill for plot 5 at San Francisco International Airport (Airport Dept. Contract 221). Bids opened September 18.
SF 10-18. Previous report 9-13

★WATER MAINS— San Francisco, Calif.

Award to Associated Pipeline, Inc., Box 66, South San Francisco, $40,555, by San Francisco Public Utilities Commission, City Hall, San Francisco, for laying 8" and 16" cast iron mains in Gilman Ave. and in Hawes St., San Francisco Water Dept. Spec. 832. Bids opened September 4. SF 19-18

★CAST IRON MAINS— San Francisco, Calif.

Award to Michael Murphy, Jr., 308 Upper Terrace, San Francisco, $50,996, by San Francisco Public Utilities Commission, City Hall, San Francisco, for laying 6", 8" and 12" cast iron water mains in Miraloma Park, San Francisco Water Dept. Spec. 854. Bids opened September 4. SF 10-18

★PAVING— San Francisco, Calif.

Award to Charles L. Harney, Inc., 575 Berry, San Francisco, $207,605, by San Francisco Department of Public Works, City Hall, San Francisco, for widening and paving Clarendon Ave. between Stanyan and Laguna Honda Boulevard. Bids opened September 24. OTHER LOW BIDS: Pacific Pavements Co., Ltd., 1275 Michigan St., $242,592; The Fay Improvement Co., 101 Carolina St., $242,910. Of San Francisco.
SF 10-18. Previous report 9-13

★SEWERS, PAVING— San Francisco, Calif.

Award to Charles L. Harney, Inc., 575 Berry, San Francisco, $41,914, by San Francisco Department of Public Works, City Hall, San Francisco, for sewers and paving in west access road, north of San Francisco Municipal Stadium site and in Ingerson Ave. north of the west access road. Bids opened September 24.
SF 10-18. Previous report 9-13

★REPLACING BRICK PAVEMENT— San Francisco, Calif.

Award to Pacific Pavements Co., Ltd., 1275 Michigan St., San Francisco, $66,000, by San Francisco Department of Public Works, City Hall, San Francisco, for brick pavement replacement on Point Lobos Ave. and other streets.
SF 10-18

●EMERGENCY LEVEE REPAIRS— San Joaquin County, Calif.

Bids will be opened 2 p.m., October 21, by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for emergency levee repairs, right bank Mormon Slough, left bank Stockton Diverting Canal, and left bank Calaveras River in San Joaquin County, Calif.; CIVENG-04-167-59-40. Specs with above address. Bid bond 20%. Completion time 30 calendar days. Quantities: 10,000 c.y. unclassified excavation; 15,800 c.y. embankment; 485 ton new stone. RM 10-18

★TACAN FACILITY— Sausalito, Calif.

Award to L. J. Cox, 17511 Chatsworth, Granada Hills, $25,619, by Civil Aeronautics Administration, 5651 W. Manchester Ave., Los Angeles, Calif., for construction of Type II, Sched. I combined VHF Omni Range and TACAN Facility (mountain top VORTAC), located two airline mi. west of U.S. Post Office Bldg., Sausalito; Proposal No. 4-59-923. Bids opened September 22.
RM 10-18. Previous report 9-20

▲LEVEE REPAIR—Stanislaus County, Calif.

Bids received October 7 by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for emergency levee repairs, right bank San Joaquin River, vicinity of Crows Landing Bridge and Grayson, Stanislaus County, Calif.; CIVENG-04-167-59-32. LOW BIDS: Le Stephens, Box 726, Stockton, $25,621; Al Haworth, Rt. 4, Box 770, Stockton, $30,349; Hall Earth Moving Inc., 5184 10th Ave., Hanford, $33,515. Government estimate $49,100.
RM 10-18. Previous report 10-4

★DREDGING— Stockton, Calif.

Award to Olympian Dredging Co., 525 Market St., San Francisco, $24,920, by Stockton Port Commission, Tomel Bldg., 33 E. Magnolia St., Stockton, for emergency dredging of 28,000 c.y. of material adjacent to wharves 8 and 9 and the oil wharf, Port of Stockton. RC 10-18

★BLACKTOPPING— Susanville, Calif.

Award to George E. Miller Construction Co., Reno, Nev., $18,810, by City Council, Susanville, for blacktopping in District 6, Susanville, Lassen County. RC 10-18

●BARBED WIRE FENCE— Susanville, Calif.

Bids will be opened 2 p.m., October 21, by Bureau of Land Management, 1001 N.E. Lloyd Blvd., Portland, Ore., for construction of seven mi. of barbed wire fence about 30 mi. northeast of Susanville, Lassen County, Calif.; Inv. No. 975. Specs with above office.
RM 10-18

★VALVES, METALWORK— Trinity Dam, Calif.

Award to Goslin-Birmingham Manufacturing Co., Inc., Box 631, Birmingham, Ala., $88,000 (fob Redding, Calif.), by Bureau of Reclamation, Denver Federal Center, Denver, Colo., for furnishing two 84" hollow-jet valves, one set of handling equipment, and two lots of support metalwork for outlet works at Trinity Dam, Trinity River Division, Central Valley Project, Calif.; Inv. No. DS-5091. RM 10-18. Previous report 10-4

★EROSION CONTROL— Ukiah, Calif.

Award to David L. Davis, 2261 Tice Valley Blvd., Walnut Creek, $18,370, by Corps of Engineers, 180 New Montgomery, San Francisco, for erosion control at Coyote Dam, Ukiah, Mendocino County, Calif.; CIVENG-02-203-59-34. RM 10-18. Previous report 8-30

★WATER SUPPLY, SEWAGE DISPOSAL SYSTEMS— Ukiah, Calif.

Award to Frank M. Crane, 4 Banker Drive, Ukiah, $82,376, by Corps of Engineers, 180 New Montgomery St., San Francisco, for bituminous access road and parking area; water supply system; sewage disposal system; Russian River Reservoir Project, Coyote Valley, 4½ mi. northeast of Ukiah, Mendocino County, Calif.; CIVENG-04-203-59-36. Bids opened September 18.
RM 10-18. Previous report 8-23

●EXCAVATION, SEWERS—Winters, Calif.

Bids will be opened 10 a.m., P.S.T., October 28, by Bureau of Reclamation, Box 546, Winters, for flood damage repair Putah South Canal, southwest of Winters, Solano County, Calif.; Spec. No. 200C-396. Work includes: removing erosion material; excavation; installing sewer pipe drains; compacting embankments; concrete in canal lining; grading, spot placing gravel on patrol road. Specs with above address or Box 2511, Sacramento. Bid bond 10%. Completion time 150 calendar days. Quantities: 13,490 c.y. excavation; 620 c.y. compacting embankment; 515 c.y. riprap; 949 c.y. gravel; 53 c.y. concrete; 1,500 lb. reinforcement steel; 505' sewer pipe, 6". RM 10-18

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

STATE HIGHWAY PROJECTS
BIDS CLOSE 9 A.M., OCTOBER 22
Helena, Montana
NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 a.m. on October 22, 1958. The proposals will be publicly opened and read immediately thereafter. Your attention is directed to the 9:00 a.m. hour set for the opening of bids in Room 151 of the State Highway Department Building.

The Form for Bid Bond is no longer included in the "Instruction to Bidders" and no Bid Bond will be acceptable. No proposal will be considered unless accompanied by a proposal guaranty, in an amount of at least five (5) per cent of the bid, made unconditionally payable to the State Highway Commission of Montana, which at the bidder's option may be cash, cashier's check, certified check, bank- postal- or express-money order, or bank draft.

1. **F-F 90(4)FH**—Construction of one 949.25' steel and concrete bridge over the Clark Fork near Thompson Falls on the Idaho Line-Plains Road in Sanders County, involving about 1,100 cu. yds. excavation; 34 each floor drains; 1,800 cu. yds. structure excavation; 2,395.1 cu. yds. concrete; 251,108 lbs. reinforcing steel; all lump sum structural steel; all lump sum shoring and cribs; 43,200 lbs. furnishing steel bearing piles; 1,172 lin. ft. driving steel bearing piles; 1,901.5 lin. ft. steel bridge rail; and all lump sum test piles. Project to be completed by July 31, 1960.

2. **F 164(10) and DF 164(12)**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain 2.255 miles on the Philipsburg-Anaconda Road in Deer Lodge County, involving about 16.41 acres clearing; 3.96 acres grubbing; 402,762 cu. yds. excavation; 20,684 mi. yds. overhaul; 895 units rolling; 6,080 M gals. watering; 15 hours watering; 39,889 tons crushed aggregate; 353.60 tons penetration asphalt; 63.82 tons cutback asphalt; 46.83 tons emulsified asphalt; 6,428 tons plant mix; 100 lin. ft. relay pipe culverts; 60 cu. yds. gravel backfill; 1,146 lin. ft. reinforced concrete pipe; 5,225 lin. ft. guard rail-concrete posts; 34.78 cu. yds. concrete; 6,091 lbs. reinforcing steel; and other items. Project to be completed in 200 Calendar days.

3. **F 224(8)**—Construction of three semi-traffic actuated signals on First and Second Avenues North in Great Falls in Cascade County. Project to be completed in 45 calender days.

4. **DS (37)4, DS 37(5) and S 37(6)**—Grade, aggregate surfacing, road-mix bituminous surface, seal-coat oil, and drain 6.754 miles on the Heimville-Ovando Road in Powell County, involving about all lump sum clearing and grubbing; 140,563 cu. yds. excavation; 29,054 mi. yds. overhaul; 460 units rolling; 2,934 M gals. watering; 1 hour watering; 43,427 tons crushed aggregate; 75.20 tons cutback asphalt; 11.06 tons emulsified asphalt; 100 lin. ft. relay pipe culverts; 247 cu. yds. gravel backfill; 408 lin. ft. corrugated metal pipe; 260 lin. ft. structural plate pipe; 2,900 lin. ft. reinforced concrete pipe; 0.667 mile processing; 279 sq. yds. pro-

cessing; all lump sum remove existing structure; and other items. Project to be completed in 160 calendar days.

5. S 38(6)—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling; and drain 5.854 miles on the Noxon-Troy Road in Lincoln County, involving about 59.82 acres clearing; 43.75 acres grubbing; 215,483 cu. yds. excavation; 18,894 mi. yds. overhaul; 833 units rolling; 4,961 M gals. watering; 30 hours watering; 89,509 tons crushed aggregate; 609.52 tons asphalt cement; 117.00 tons cutback asphalt; 97.60 tons emulsified aspahlt; 11,084 tons plant mix; 1,818 lin. ft. relay pipe culverts; 123 cu. yds. gravel backfill; 1,867 lin. ft. corrugated metal pipe; and other items. Project to be completed in 130 calendar days.

6. S 107(6)—Aggregate surfacing and drain 8.057 miles on the Ledger-East and West Road in Toole County, involving about 54 cu. yds. excavation; 148 units rolling; 740 M gals. watering; 35,623 tons crushed aggregate; 100 lin. ft. relay pipe culverts; 100 cu. yds. gravel backfill; 176 lin. ft. corrugated metal pipe; 1,966 yd. miles haul binder; 983 cu. yds. binder; and other items. Project to be completed in 90 calendar days.

7. S 185(1)—Grade, aggregate surfacing, and drain 3.909 miles on the Santa Rita-Del Bonita Road in Glacier County, involving about 175,473 cu. yds. excavation; 43,141 mi. yds. overhaul; 484 units rolling; 3,298 M gals. watering; 33,541 tons crushed aggregate; 33 lin. ft. relay pipe culverts; 100 cu. yds. gravel backfill; 1,550 lin. ft. corrugated metal pipe; and other items. Project to be completed in 120 calendar days.

8. S 196(1)—Grade, aggregate surfacing, and drain 10.968 miles on the Albion-Capitol Road in Carter County, involving about 80,-276 cu. yds. excavation; 40,687 mi. yds. overhaul; 371 units rolling; 2,427M gals. watering; 61,932 tons crushed aggregate; 118 lin. ft. relay pipe culverts; 100 cu. yds. gravel backfill; 2,550 lin. ft. corr. metal pipe; 400 lin. ft. guard rail—concrete posts; 3,088 yd. mile haul binder; 178 hours use of motor grader; 354 hours use of scraper; 1,544 cu. yds. binder; and other items. Project to be completed in 150 calendar days.

9. S 236(3)—Grade, aggregate surfacing, and drain 7.056 miles on the Custer-Musselshell Road in Musselshell County, involving about all lump sum clearing & grubbing; 231,740 cu. yds. excavation; 7,362 mi. yds. overhaul; 644 units rolling; 4,374 M gals. watering; 45,-663 tons crushed aggregate; 100 lin. ft. relay pipe culverts; 207 cu. yds. gravel backfill; 124 lin. ft. corrugated metal pipe; 2,512 lin. ft. reinforced concrete pipe; 2,054 mi. yds. overhaul on binder; 1,027 tons binder; all lump sum remove existing structure; and other items. Project to be completed in 150 calendar days.

10. S 248(2)Unit 1—Grade, aggregate surfacing, and drain 12.143 miles on the East of Blackfoot-Northerly Road in Glacier County, involving about 786,171 cu. yds. excavation; 90,374 mi. yds. overhaul; 1,938 units rolling; 13,611 M gals. watering; 91,746 tons crushed aggregate; 40 cu yds. riprap; 100 lin. ft. relay pipe culverts; 224 cu. yds. gravel backfill; 3,608 lin. ft. corrugated metal pipe; 214 lin. ft. structural plate pipe; 3,990 mi. yds. haul binder; 1,995 cu. yds. binder; and other items. Project to be completed in 300 calendar days.

11. S 248(2)Unit 2—Construction of one 19.0', one 38.0', one 50.0' and one 100.0' treated timber bridge on the East of Blackfoot-Northerly Road in Glacier County, involving about 400 cu. yds. excavation; all lump sum remove existing structure and maintain traffic; 3,096 lbs. structural steel; 3,213 MBM untreated timber; 94,257 MBM treated timber; 2,245 lin. ft. treated timber piles; and other items. Project to be completed by June 30, 1959.

12. S 264(2)—Construction of one 410.5' steel and concrete bridge on the East of Van Norman-North Road in Garfield County, involving about 115 cu. yds. riprap; 1,600 lin. ft. precast prestressed concrete beam; 735 cu. yds. structure excavation; 603 cu. yds. concrete; 89,535 lbs. reinforcing steel; 504 lin. ft. furnishing treated timber piles; 480 lin. ft. driving treated timber piles; and 826.46 lin. ft. steel beam bridge rail. Project to be completed by November 30, 1959.

13. SMP 4599—Crushing and stockpiling 164,-500 tons of ⅜" crushed gravel surfacing from 14 crusher setups in Lake, Mineral, Missoula, Powell, Ravalli, and Sanders counties, involving about 164,500 tons ⅜" crushed gravel and 313,700 ton mile haul on stockpiled material. Project to be completed by September 30, 1959.

14. SPP 7512-03—The improvement contemplated consists of the plumbing system and septic tank for latrine at the Lewis and Clark Cavern State Park in Jefferson County, involving the lump sum for the plumbing system and septic tank. Project to be completed by April 15, 1959.

The above-listed quantities are approximate only.

Prequalification of bidders, at least 72 hours prior to the opening of bids, is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission, in Helena, Montana. Plans and specifications for all Federal-aid projects are also on file and may be examined in the offices of the Bureau of Public Roads, Helena, Montana.

Harry L. Burns, Chairman
Fred Quinnell, Jr., State Highway Engineer

6309—10-11, 18

HEATING PLANT

BIDS CLOSE 8 P.M., OCTOBER 23

Bremerton, Washington

NOTICE TO CONTRACTORS

1. NOTICE TO CONTRACTORS

Sealed bids will be received by the **Board of Directors, Bremerton School District No. 100-C at the School District Office, Burwell & Montgomery**, Bremerton, Washington, until 8:00 p.m. THURSDAY, OCTOBER 23, 1958. For the general contract, which includes the mechanical work, the electrical work; for the construction of a CENTRAL HEATING PLANT FOR THE "A" BUILDING AND THE LIBRARY-ADMINSTRATION CENTER, Olympic College, 16th & Chester, Bremerton, Washington.

2. BID OPENING

Bids will be opened publicly at the above stated time and place, and read aloud. Bids received after the time set for opening cannot be considered. Bidders and others properly interested are invited to be present at the bid opening.

3. BID DOCUMENTS

Specifications, including bid and contract documents, and drawings may be examined at the office of the architect, **Branch & Branch, 2616 East 11th Street, Bremerton, Washington**, and at the **various plan depositories** and may be obtained at the architect's office upon deposit of $25 for each set.

4. REFUND OF DEPOSITS

The amount of deposit for one set of documents will be refunded to actual prime bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of bid opening. Prime contract bidders requiring more than one set of documents and sub-contract bidders desiring prints of drawings for their own use may obtain same by paying the actual cost of printing, which amount will not be refunded.

5. BID GUARANTEE

Each bond must be accompanied by a certified check, a bank cashier's check, or a bid bond issued by a bonding company licensed to do business in the locality of the project, in an amount not less than 5 per cent of the base bid, plus additive alternates, if any.

6. WITHDRAWAL OF BIDS

No bid may be withdrawn after the time set for the opening thereof unless and until award of contract is delayed for a period exceeding sixty days.

7. OWNER'S RIGHT TO REJECT BIDS

The right is reserved to reject any or all bids, and to waive informalities. By order of Bremerton School District No. 100-C.

By ARMIN G. JAHR
SUPERINTENDENT

6315—10-8, 15, 21

ELEMENTARY SCHOOL ADDITION

BIDS CLOSE 8 P.M., NOVEMBER 13

Bremerton, Washington

NOTICE TO CONTRACTORS

1. NOTICE TO CONTRACTORS

Sealed bids will be received by **The Board of Directors, Bremerton School District No. 100-C at the School District Office, Burwell & Montgomery, Bremerton, Washington** until 8:00 p.m. THURSDAY, NOVEMBER 13, 1958. For the general contract, which includes the mechanical work, the electrical work; for the construction of AN ADDITION TO VIEW RIDGE ELEMENTARY SCHOOL, BREMERTON, WASHINGTON.

2. BID OPENING

Bids will be opened publicly at the above stated time and place, and read aloud. Bids received after the time set for opening cannot be considered. Bidders and others properly interested are invited to be present at the bid opening.

3. BID DOCUMENTS

Specifications, including bid and contract documents, and drawings may be examined at the office of the architect, **Branch & Branch, 2616 East 11th Street, Bremerton, Washington**, and at the **various plan depositories** and may be obtained at the architect's office upon deposit of $25 for each set.

4. REFUND OF DEPOSITS

The amount of deposit for one set of documents will be refunded to actual prime bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of bid opening. Prime contract bidders requiring more than one set of documents and sub-contract bidders desiring prints of drawings for their own use may obtain same by paying the actual cost of printing, which will not be refunded.

5. BID GUARANTEE

Each bond must be accompanied by a certified check, a bank cashier's check, or a bid bond issued by a bonding company licensed to do business in the locality of the project, in an amount not less than 5 percent of the base bid, plus additive alternates if any.

6. WITHDRAWAL OF BIDS

No bid may be withdrawn after the time set for the opening thereof unless and until award of contract is delayed for a period exceeding sixty days.

7. OWNER'S RIGHT TO REJECT BIDS

The right is reserved to reject any or all bids, and to waive informalities. By order of Bremerton School District No. 100-C.

By ARMIN G. JAHR
SUPERINTENDENT

6314—10-15, 22, 29

BRIDGE

BIDS CLOSE 2 P.M., OCTOBER 24

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, October 14, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, Room 824 Morgan Building, 720 S.W. Washington Street, Portland 5, Oregon, until 2 p.m., on October 24, 1958, for furnishing the material and performing the work for constructing a 176-foot reinforced concrete bridge, Oregon Forest Development Road Project Willamette 1059-A, COOPER'S RIDGE MAIN LINE ROAD, Reload Bridge, Willamette National Forest, Linn County, Oregon, involving 80 cu. yds. Structure Excavation; 223 cu. yds. Concrete; 56,000 lbs. Reinforcement Steel; 365 lin. ft. Steel Bridge Railing, and other small items of work. Plans, specifications and proposals may be obtained at the address shown above or by phoning CApitol 6-3361, Extension 460. B. M. FRENCH, Regional Engineer.

6322—10-18

LIBRARY ADMINISTRATION CENTER ALTERATIONS, ADDITIONS

BIDS CLOSE 8 P.M., NOVEMBER 13

Bremerton, Washington

NOTICE TO CONTRACTORS

1. NOTICE TO CONTRACTORS

Sealed bids will be received by the **Board of Directors, Bremerton School District No. 100-C at the School District Office, Burwell & Montgomery, Bremerton, Washington** until 8:00 p.m. THURSDAY, NOVEMBER 13, 1958. For the general contract, which includes the mechanical work, the electrical work; for the construction of ADDITION AND ALTERATIONS TO THE LIBRARY-ADMINISTRATION CENTER, Olympic College, 16th & Chester, Bremerton, Washington.

2. BID OPENING

Bids will be opened publicly at the above stated time and place, and read aloud. Bids

received after the time set for opening cannot be considered. Bidders and others properly interested are invited to be present at the bid opening.

3. BID DOCUMENTS

Specifications, including bid and contract documents, and drawings may be examined at the office of the architect, **Branch & Branch, 2616 East 11th Street, Bremerton, Washington,** and at the **various plan depositories** and may be obtained at the architect's office upon deposit of $25 for each set.

4. REFUND OF DEPOSITS

The amount of deposit for one set of documents will be refunded to actual prime bidders upon return of the documents, unmutilated and without marks or annotations, within one week after the date of bid opening. Prime contract bidders requiring more than one set of documents and sub-contract bidders desiring prints of drawings for their own use may obtain same by paying the actual cost of printing, which amount will not be refunded.

5. BID GUARANTEE

Each bond must be accompanied by a certified check, a bank cashier's check, or a bid bond issued by a bonding company licensed to do business in the locality of the project, in an amount not less than 5 percent of the base bid, plus additive alternates, if any.

6. WITHDRAWAL OF BIDS

No bid may be withdrawn after the time set for the opening thereof unless and until award of contract is delayed for a period exceeding sixty days.

7. OWNER'S RIGHT TO REJECT BIDS

The right is reserved to reject any or all bids, and to waive informalities. By order of Bremerton School District No. 100-C.

By ARMIN G. JAHR
SUPERINTENDENT

6313—10-15, 22, 29

WASTEWAY, DEEP DRAINS

BIDS CLOSE 10 A.M., P.S.T., OCTOBER 30

Ephrata, Washington

NOTICE TO CONTRACTORS

United States Department of the Interior, Bureau of Reclamation, October 6, 1958. Sealed bids, in single, (Specifications No. 117C-523) will be received at the office of the Project Manager, Bureau of Reclamation, Project Office Building, Division Avenue and C Street N.W., Ephrata, Washington, until 10:00 a.m., Pacific Standard Time, October 30, 1958, and then publicly opened for furnishing labor and materials and performing all work for construction of Wasteway and Deep Drains—Blocks 44, 45 and 49. This work will include earthwork for about 7.0 miles of open drains; gravel lining for approximately 0.1 miles of open drains; construction of about 0.2 miles of closed pipe drains, structures, railroad, road, ditch, and lateral crossings, drainage inlets, pipe drain outlet, pool drop, and manholes, involving 132,120 cu. yds. excavation; 1,350 cu. yds. backfill, part compacted or puddled; 200 cu. yds. graded gravel filter; 345 cu. yds. gravel lining; 30 cu. yds. riprap; 15 cu. yds. sand and gravel or crushed rock; 105 cu. yds. coarse gravel; 1,208 lin. ft. 10-, 12- and 15-inch diameter drain pipe; 56 lin. ft. 24-inch diameter standard-strength reinforced concrete culvert pipe; 998 lin. ft. 12-, 18- and 42-inch diameter, No.16 gage corrugated-metal pipe; 372 lin. ft. 21-diameter, No. 16 gage and 24-inch diameter, No. 14 gage, asbestos-bonded corrugated-metal pipe; 2 manholes; and other work. Time allowed for completion will be 135 and 150 calendar days. For particulars address the Bureau of Reclamation, P. R. Nalder, Project Manager, P.O. Box 368, Ephrata, Washington.

6317—10-18

GYMNASIUM AND AUDITORIUM ADDITIONS

BIDS CLOSE 10 A.M., P.S.T., NOVEMBER 26

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-238. Gymnasium & Auditorium Additions, Juneau, Alaska, October 1, 1958. Name and Location of Project, JUNEAU - DOUGLAS GYMNASIUM and AUDITORIUM, Project Aaa. 50-A-238, Juneau, Alaska. Department or Agency, Alaska Public Works, Office of Territiores, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1811, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time November 26, 1958 in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181 Juneau, Alaska, and then publicly opened and read aloud. **Information regarding bidding material, bid guarantee, and bonds** follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 6070 Interior Bldg., Washington 25, D.C.; and Associated General Contractors of America, offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, 129 S.W. Third Avenue, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within twenty (20) days** from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: GYMNASIUM & AUDITORIUM ADDITIONS, Project Aaa. 50-A-238, Juneau, Alaska. **Contract "A"**—The construction of a reinforced concrete and steel auditorium addition. An opportunity will be given in the bid documents of this project to permit a reduction in the base bids should both contracts be awarded to the same bidder. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.

6310—10-11, 18, 25

BRIDGE

BIDS CLOSE 2 P.M., P.S.T., OCTOBER 24

Skamania County, Washington

NOTICE TO CONTRACTORS

Sealed bids for construction of Trout Lake Creek Bridge (reinforced concrete and treated timber) on Grand Meadows Road No. N85, Gifford Pinchot National Forest, Skamania County, Washington, will be received until 2:00 p.m., P.S.T., October 24, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, 801 West 8th St., Vancouver, Wash.

6320—10-10

GRADING, DRAINING

BIDS CLOSE 11 A.M., P.S.T., NOVEMBER 4

Juneau, Alaska

NOTICE TO CONTRACTORS

October 10, 1958, Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project DS-0975(1), Glacier Highway, Thane Extension, Territory of Alaska, described herein, will be received until 11:00 a.m., PST, November 4, 1958, in room 319, Federal Building, Juneau, Alaska. The project consists of grading and drainage of 0.9 miles of the Glacier Highway, Thane Extension, beginning 0.5 miles southeast of Sheep Creek and Ending at Little Sheep Creek. Principal items of work consist of the following: clearing—9.5 acres; grubbing—6.0 acres; unclassified excavation —33,500 cubic yards; borrow excavation, Case 1—10,500 cubic yards. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Juneau, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6323—10-18, 25

STATE HIGHWAYS PROJECTS

BIDS CLOSE 10 A.M., OCTOBER 28

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, October 28, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 5 inclusive.

The improvements for which bids will be received follow:

1. Draining, Grading, Surfacing, Paving with Cement Concrete and Asphaltic Concrete and Signing on 6.501 miles of Primary State Highway No. 2 in Kittitas County, SUNSET LODGE VICINITY AND TOP OF EASTON HILL TO EASTON, FAP Nos. I-90-2(20)55 and I-90-2(10)64 and State Project, involving about 6,820 cubic yards of Common Excavation and Borrow, 2,500 cubic yards of Top Soil from Stockpile, 64,820 tons of Crushed Surfacing and Ballast from Stockpile, 940 cubic yards of Prime Coat Aggregate, 162 tons of Asphalt Cement, 17,910 tons of Asphaltic Concrete, 99,803 square yards of Cement Concrete Pavement, 192 cubic yards of Concrete, 43,120 pounds of Steel Reinforcing Bars, 9,145 linear feet of Cement Concrete Gutter, 4,100 linear feet of Mountable Cement Concrete Curb, 177 linear feet of Concrete Pipe, 840 linear feet of Metal Pipe, 711 linear feet of Galvanized Conduit Pipe, 17,559 linear feet of Beam Guard Rail, a lump sum bid for Signing and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Constructing a Reinforced Concrete Flat Slab Bridge and a Precast Prestressed Concrete Bridge and Installing Illumination on 0.016 mile of Primary State High-

way No. 1 in King County, 14TH AVENUE SOUTH UNDERCROSSING AND CLOVERDALE STREET OVERCROSSING—SEATTLE, FAP No. U-001-3(16), involving about 1,775 linear feet of Prestressed Concrete Girders, 2,615 cubic yards of Concrete, 378,000 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 1,330 cubic yards of Concrete and 290,000 pounds of Steel Reinforcing Bars), 688 linear feet of Standard Bridge Railing, 21,800 linear feet of Untreated Timber Piling, 10,800 linear feet of Treated Timber Piling, 12,000 linear feet of Concrete Piling, a lump sum bid for Two Illumination Systems and other items.

3. Constructing a Precast Prestressed Concrete Girder Bridge and a Reinforced Concrete Slab Bridge on 0.059 mile of Secondary State Highway No. 7-C in Adams County, N. P. RAILWAY OVERCROSSING AND EAST LOW CANAL BRIDGE, FAS No. S-SG-0972(4), involving about 608 linear feet of Standard Bridge Railing, 112,200 pounds of Steel Reinforcing Bars, a lump sum bid for Superstructure (about 102 cubic yards of Concrete and 44,000 pounds of Steel Reinforcing Bars), 1,239 linear feet of Precast Prestressed Concrete Girders and other items.
4. Constructing Chain Link Fence on 0.783 mile of Primary State Highway No. 18 in Grant County, PELICAN HORN—FENCING, FAP No. I-90-4(21)173, involving about 7,790 linear feet of Chain Link Fence. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
5. Clearing, Draining, Grading and Surfacing on 2.367 miles of an Island County Road, MUTINY BAY-BUSH POINT ROAD, FAS Nos. S-1089(1) and S-1088(1), involving about 20,860 cubic yards of Unclassified Excavation, 4,800 cubic yards of Common Borrow, 9,930 cubic yards of Selected Roadway Borrow, 3,160 cubic yards of Screened Gravel Surfacing, 1,352 linear feet of Metal Pipe, 15 Guide Posts and other items.
6. Draining, Grading, Surfacing, Paving with Cement Concrete and Asphaltic Concrete and Installing Illumination on 0.481 mile of Primary State Highway No. 5 in King County, RENTON VICINITY, a State Project, involving about 3,010 cubic yards of Unclassified Excavation, 3,210 cubic yards of Sand Borrow, 3,200 cubic yards of Selected Roadway Borrow, 1,570 tons of Crushed Surfacing, 190 cubic yards of Prime Coat Aggregate, 25 tons of Asphalt Cement, 4,750 tons of Asphaltic Concrete, 12,940 square yards of Cement Concrete Pavement, 6,450 linear feet of Extruded Traffic Curb, 141 linear feet of Concrete Pipe, 30 linear feet of Galvanized Conduit Pipe, a lump sum bid for Illumination System and other items.
7. Draining, Grading and Surfacing on 22.526 miles of Adams County Roads, BLOCK 46—FEEDER ROADS, a State Project, involving about 22.5 miles of Grading, 46,260 tons of Crushed Surfacing, 1,446 linear feet of Metal Pipe and other items.
8. Redecking Bridge on 0.108 mile of Secondary State Highway No. 9-A in Clallam County, ELWHA RIVER BRIDGE No. 9-A/3, a State Project, involving about 98 MBM of Untreated Timber and Lumber, 0.6 MBM of Treated Timber and Lumber and a lump sum bid for Removing Portions of Existing Structure.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways

6321—10-11, 18

REDECKING BRIDGES

BIDS CLOSE 11 A.M., P.S.T., OCTOBER 28

Juneau, Alaska

NOTICE TO CONTRACTORS

October 7, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Projects DF-062-4(8) and DF-062-3(3), Redecking Salcha River and Tanana River Bridges, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., October 28, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of redecking and renovating the abutment of the existing Salcha River Bridge, Mile 323 on the Richardson Highway, and redecking the existing Tanana River Bridge, Mile 275 on the Richardson Highway. Principal items of work consist of the following: treated timber, creosote pressure—123,580 MBM; dismantling existing bridge decks; loose riprap—550 cubic yards. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Fairbanks, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6319—10-11, 18

GRADING, DRAINING, BITUMINOUS TREATMENT

BIDS CLOSE 11 A.M., P.S.T., OCTOBER 28

Juneau, Alaska

NOTICE TO CONTRACTORS

October 7, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project DS-0510(5), Wasilla-Big Lake Junction Road, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., October 29, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of grading, drainage and bituminous treatment of 9.6 miles of the Wasilla-Big Lake Junction Road, Third Judicial Division, Territory of Alaska. Principal items of work consist of the following: unclassified excavation—186,374 cubic yards; borrow excavation, Case 1—49,000 cubic yards; crushed aggregate base, Grading D-1—41,676 tons; aggregate, Desig. AT-50, bituminous surface treatment—3,385 tons; asphalt, Grade RC-3, bituminous surface treatment—264 tons. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6318—10-11, 18

BITUMINOUS SURFACING

BIDS CLOSE 11 A.M., P.S.T., OCTOBER 21

Juneau, Alaska

NOTICE TO CONTRACTORS

September 30, 1958, Juneau, Alaska. Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment and materials and performing all work for Project DF-062-1(3), Alaska Highway, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., October 21, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of bituminous surfacing of 42.6 miles of the Alaska Highway beginning at Northern Junction, Mile 1264.0, and ending at the Alaska-Canada Boundary, Mile 1221.4. Principal items of work consist of the following: crushed aggregate base, Grading D-1—4,000 tons; asphalt, Grade MC-0, prime coat—810 tons; aggregate, Designation AT-35, bituminous surface treatment—12,500 tons; asphalt, Grade RC-3, bituminous surface treatment—995 tons; bituminous curb—17,750 lineal feet. Provision is made for a combination bid on this project and contiguous project F-DF-062-1(5), being advertised on the same date. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Fairbanks, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.

6307—10-4, 11

DRAINAGE CORRECTION

BIDS CLOSE 10 A.M., OCTOBER 21

Okanogan County, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, OCTOBER 7, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, until 10 a.m. on October 21, 1958, for furnishing the material and performing the work for drainage correction, Washington Forest Highway Project 28-D7, Loup Loup Highway, Okanogan National Forest, Okanogan County, Washington, involving 1,175 Lin. Ft. Culvert Pipe; 3 Elbows for 30" Pipe; 600 Cu. Yds. Unclassified Excavation; 350 Cu. Yds. Structure Excavation; 30 Sq. Yds. Grouted Rubble Spillway Apron; 1 Trash Rack (structural steel), and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone: CA 6-3361, Extension 460). B. M. FRENCH, Regional Engineer.

6311—10-11

GRADING, CONSTRUCTING BRIDGES

BIDS CLOSE 10 A.M., OCTOBER 20

Portland, Oregon

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, October 6, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, mail address P.O. Box 3900, Portland, Oregon, until 10 a.m. on October 20, 1958, for furnishing the material and performing the work for constructing 2.858 miles grading and two reinforced concrete bridges totaling 206.02 feet, Oregon Forest Development Road Project Umpqua 2813-A, DUMONT CREEK ROAD, Umpqua National Forest, Douglas County, Oregon, involving 25 acres Clearing and Grubbing; 127,000 cu. yds. Excavation; 12,200 cu. yds. Selected Borrow, Topping; 812 lin. ft. Culvert Pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. B. M. FRENCH, Regional Engineer.

6304—10-11

GRADING

BIDS CLOSE 10 A.M., OCTOBER 22

Portland, Oregon

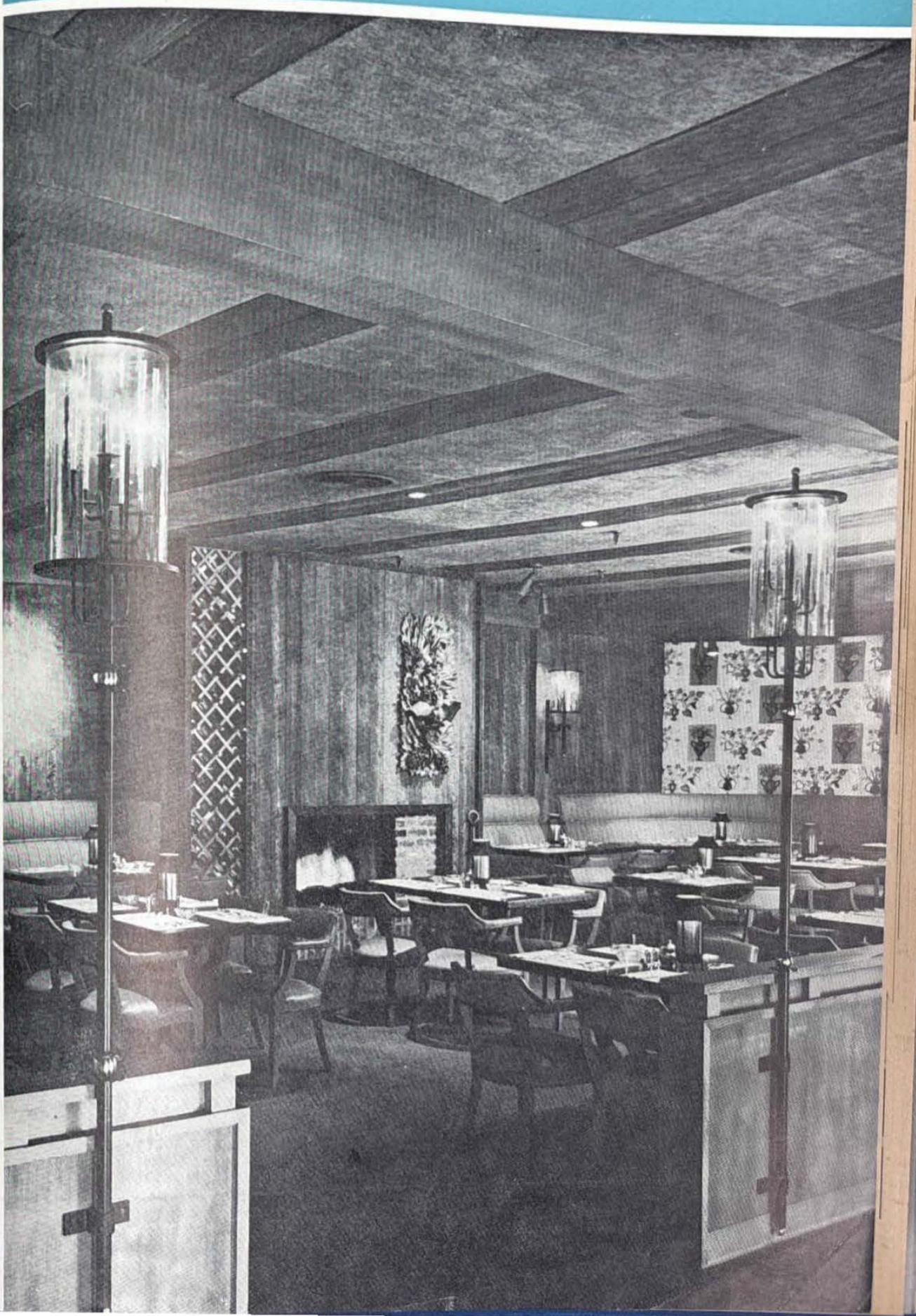
NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, October 8, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon, until 10 a.m. on October 22, 1958, for furnishing the material and performing the work for constructing 5.557 miles Grading, Oregon Forest Development Road Project Siskiyou 333-B, AGNESS ROAD, Siskiyou National Forest, Coos and Curry Counties, Oregon, involving 60 acres Clearing and Grubbing; 510,000 cu. yds. Excavation; 25,000 cu. yds. Special Subbase; 4,376 lin. ft. Culvert Pipe; 260 lin. ft. Structural-plate pipe, and other small items of work. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 824 Morgan Building, Portland, Oregon. (Telephone CA 6-3361, Ext. 460). B. M. FRENCH, Regional Engineer.

6312—10-11

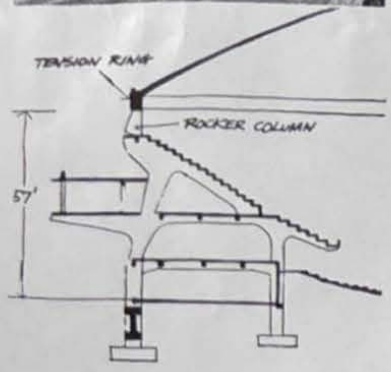
School of Architecture & Allied Arts NOV 19 1958

pacific architect and builder



Championship Material

1,146 WRAPS of prestressing wire on tension ring induced a compressive force of 14,000 lbs. per circumferential foot. Ring rests on rocker columns which absorb internal stresses and force of high velocity winds.



CROSS SECTION shows how monolithic dome and tension ring rest on hinged rocker columns, supported by stadium wall. Outer foundation is a 10' deep continuous ring girder.

Versatile Concrete Scores Victory in Cuba's Magnificent Sports Palace

● Five miles from the heart of Havana, in 65-acre Sports City, stands a monument to Progress as well as Athletics —Cuba's magnificent new Sports Palace.

Boasting the largest concrete dome in the Western Hemisphere—with 286' interior diameter—the building accommodates 18,000 spectators without a single pillar or post to block vision.

To absorb the stresses inherent in the flat shape of the dome (which rises only 40', or a 1:7 height-to-diameter ratio), and to withstand winds of hurricane force, the dome's perimeter connects with a prestressed concrete ring 3' thick and 5' high. This tension ring rests in turn on 24 reinforced concrete rocker columns, hinged top and bottom to absorb both internal and external stresses.

Ranking as one of the world's finest arenas, this project required 32,500 barrels of El Morro Cement, made by Lone Star's Cuban subsidiary, La Compañia Cubana de Cemento Portland. 28-day strength of dome concrete was 4,500 psi.

Owner: **COMISIÓN NACIONAL de DEPORTES**

Architects: **ARROYO y MENÉNDEZ**, Havana

General Contractors
CONSTRUCCIONES CODECO, S. A., Havana

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pacific architect and builder

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Covering California, Oregon, Washington, Idaho, Montana, Alaska and Hawaii—a $4 billion building market

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THE COVER

Lakewood Terrace Restaurant, Tacoma. Terry & Moore, Architects; Dearborn-Massar photo.

BUILDING PERMITS

High volume continues in October

Building permits for October again paint a bright picture for the construction industry in the West. For the sixth consecutive month the dollar volume for the five states is higher than the same period last year, this time by nearly $22 million.

Washington leads the way with a $11½ million gain over October 1957. Oregon reports a $6 million increase; California, $4½ million; and Montana, $1 million. Idaho dropped $1 million. The five-state total for October is also up $10¾ million over September 1958 figures.

Dollar volume for the first ten months of 1958 is $2,259,809,332, an increase of $219 million over the same period last year. California has picked up $115½ million; Washington, $51¼ million; Oregon, $46¾ million; Montana, $3½ million; and Idaho, $1¾ million.

Here are the January through October totals:

	Jan.-Oct. 1958	Jan.-Oct. 1957
Calif.	$1,773,730,262	$1,658,041,813
Ore.	151,646,442	104,900,420
Wash.	286,667,601	235,351,393
Mont.	23,945,699	20,399,759
Idaho	23,777,015	21,951,439

ANALYSIS OF TYPICAL AREAS—OCTOBER

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
King County	695	$ 7,819,790	47	$ 574,930	4	$1,055,000
Seattle	529	3,802,536	168	4,482,505	9	5,525,000
Tacoma	118	727,410	35	314,005	—	—
Los Angeles County	1,875	14,651,725	292	4,384,857	36	1,597,925
Orange County	191	2,438,980	27	163,910	—	—
Sacramento County	866	8,042,369	60	2,478,528	12	2,103,351

Building Permit Totals for 116 Western Agencies for October

CALIFORNIA	Oct. 1958	Sept. 1958	Oct. 1957
Alameda County	$ 1,208,050	$ 1,284,075	$ 2,524,350
Anaheim	4,636,426	4,022,031	3,420,418
Bakersfield	761,416	1,041,324	621,874
Burbank	1,634,559	872,961	573,801
Contra Costa County	3,234,571	4,154,629	3,321,888
Fresno	1,027,134	1,363,068	637,319
Fullerton	2,062,417	1,587,453	539,755
Glendale	1,159,514	1,649,501	999,920
Inglewood	1,068,695	762,950	835,090
Long Beach	4,964,830	4,300,565	3,793,475
Los Angeles	40,650,677	35,714,232	41,758,091
Los Angeles County	21,414,262	14,923,872	22,241,614
Oakland	4,448,277	2,960,632	2,920,374
Ontario	758,544	1,048,935	2,102,202
Orange County	2,816,174	4,969,641	4,294,326
Palo Alto	1,018,093	1,753,122	2,498,783
Pasadena	1,817,610	1,817,051	2,271,110
Pomona	407,844	821,420	1,088,338
Richmond	519,514	559,914	2,147,552
Riverside	1,687,169	2,289,716	965,572
Sacramento	6,628,267	2,846,090	1,928,880
Sacramento County	12,733,179	11,886,893	11,378,324
San Bernardino	2,421,829	775,721	3,056,115
San Bernardino County	6,436,561	4,892,095	4,661,491
San Diego	15,072,689	9,723,534	15,993,738
San Diego County	9,700,500	7,581,200	5,269,700
San Francisco	4,020,550	10,887,842	3,223,787
San Jose	9,714,265	16,684,570	5,228,095
San Mateo	1,615,487	1,379,787	7,414,418
San Mateo County	3,326,931	2,597,230	855,116
Santa Ana	1,025,722	1,490,293	5,361,989
Santa Monica	1,658,816	1,206,897	1,432,574
Stockton	2,024,239	754,967	1,300,432
Sunnyvale	1,608,828	1,087,010	3,123,211
Torrance	1,548,805	871,634	1,444,083
West Covina	1,384,877	432,990	2,571,555
TOTAL	$178,217,321	$162,995,845	$173,799,360

OREGON	Oct. 1958	Sept. 1958	Oct. 1957
Albany	$ 138,750	$ 135,500	$ 443,250
Astoria	7,017	24,957	29,225
Baker	45,000	233,100	70,067
Bend	74,400	68,900	121,825
Coos Bay	65,095	24,045	76,460
Corvallis	326,040	464,085	175,210
Eugene	419,285	610,296	1,907,981
Grants Pass	64,150	116,250	43,325
Gresham	19,721	115,000	146,835
Hillsboro	110,906	107,589	240,790
Klamath Falls	268,680	149,126	147,657
LaGrande	81,095	146,542	1,375
Lane County	970,541	1,002,609	335,766
Medford	1,129,821	296,657	220,395
Multnomah County	3,913,915	6,860,407	1,121,815
North Bend	97,900	116,470	16,290
Oregon City	32,725	190,850	28,874
Pendleton	213,740	109,860	233,740
Portland	7,779,130	2,978,015	4,971,970
Roseburg	196,372	97,310	38,032
Salem	625,003	475,023	319,360
Springfield	147,025	118,311	10,100
The Dalles	84,831	90,431	19,800
TOTAL	$ 16,811,142	$ 14,531,333	$ 10,720,142

WASHINGTON	Oct. 1958	Sept. 1958	Oct. 1957
Aberdeen	$ 73,352	$ 78,767	$ 232,665
Anacortes	102,998	189,585	29,165
Auburn	364,000	335,195	149,800
Bellingham	1,633,058	658,600	187,283
Bremerton	253,635	139,040	36,380
Centralia	60,982	126,870	69,149
Chehalis	21,734	15,705	126,487
Clarkston	33,313	65,363	35,785
Ellensburg	64,417	51,532	27,557
Ephrata	31,665	42,867	72,254
Everett	133,998	355,644	148,272
Kelso	97,000	39,900	37,450
Kennewick	53,600	131,420	59,590
King County	9,503,615	10,718,495	6,802,605
Kirkland	47,100	213,850	51,340
Longview	243,018	220,475	168,227
Moses Lake	92,320	131,374	53,733
Olympia	205,598	156,561	601,691
Pasco	132,300	129,890	867,885
Pierce County	1,815,830	1,398,240	1,711,339
Port Angeles	27,950	49,000	14,950
Puyallup	29,050	123,600	81,219
Ritzville	23,600	Nil	1,000
Seattle	13,969,316	19,049,348	6,110,499
Shelton	46,800	21,800	12,300
Spokane	2,009,647	3,147,789	2,202,881
Spokane County	1,651,399	2,552,560	1,808,705
Sumner	60,100	26,732	127,350
Tacoma	1,424,154	1,140,532	911,849
Vancouver	—	404,463	428,804
Walla Walla	195,510	237,039	103,583
Wenatchee	251,877	676,819	189,418
Yakima	502,030	249,243	327,086
TOTAL	$ 35,365,966	$ 42,878,298	$ 23,788,312

MONTANA	Oct. 1958	Sept. 1958	Oct. 1957
Billings	$ 284,650	$ 248,150	$ 296,800
Bozeman	189,150	66,150	94,600
Butte	75,388	26,150	12,000
Glasgow	68,600	267,900	77,475
Glendive	42,600	78,850	108,500
Great Falls	1,005,733	744,425	563,828
Helena	513,810	234,913	346,407
Kalispell	54,385	28,500	109,720
Lewistown	238,825	51,700	72,600
Livingston	16,175	127,950	30,485
Miles City	105,940	62,610	68,851
Missoula	184,550	204,050	72,912
TOTAL	$ 2,779,806	$ 2,141,348	$ 1,874,178

IDAHO	Oct. 1958	Sept. 1958	Oct. 1957
Boise	$ 713,308	$ 474,145	$ 568,060
Caldwell	108,166	65,500	134,150
Coeur d'Alene	164,695	46,900	135,370
Idaho Falls	881,356	836,218	1,099,400
Jerome	29,950	318,950	42,265
Lewiston	146,925	60,740	87,580
Nampa	267,425	196,246	78,837
Payette	12,700	26,650	1,740
Pocatello	191,037	391,470	1,422,439
Sandpoint	76,000	30,100	32,200
St. Maries	23,000	51,900	4,500
Twin Falls	102,820	137,450	179,050
TOTAL	$ 2,717,382	$ 2,636,269	$ 3,785,591
GRAND TOTAL	$235,891,617	$225,183,093	$213,967,583

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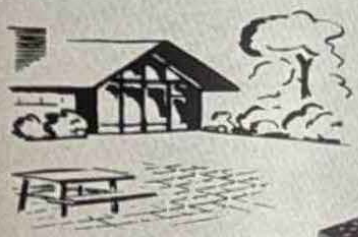

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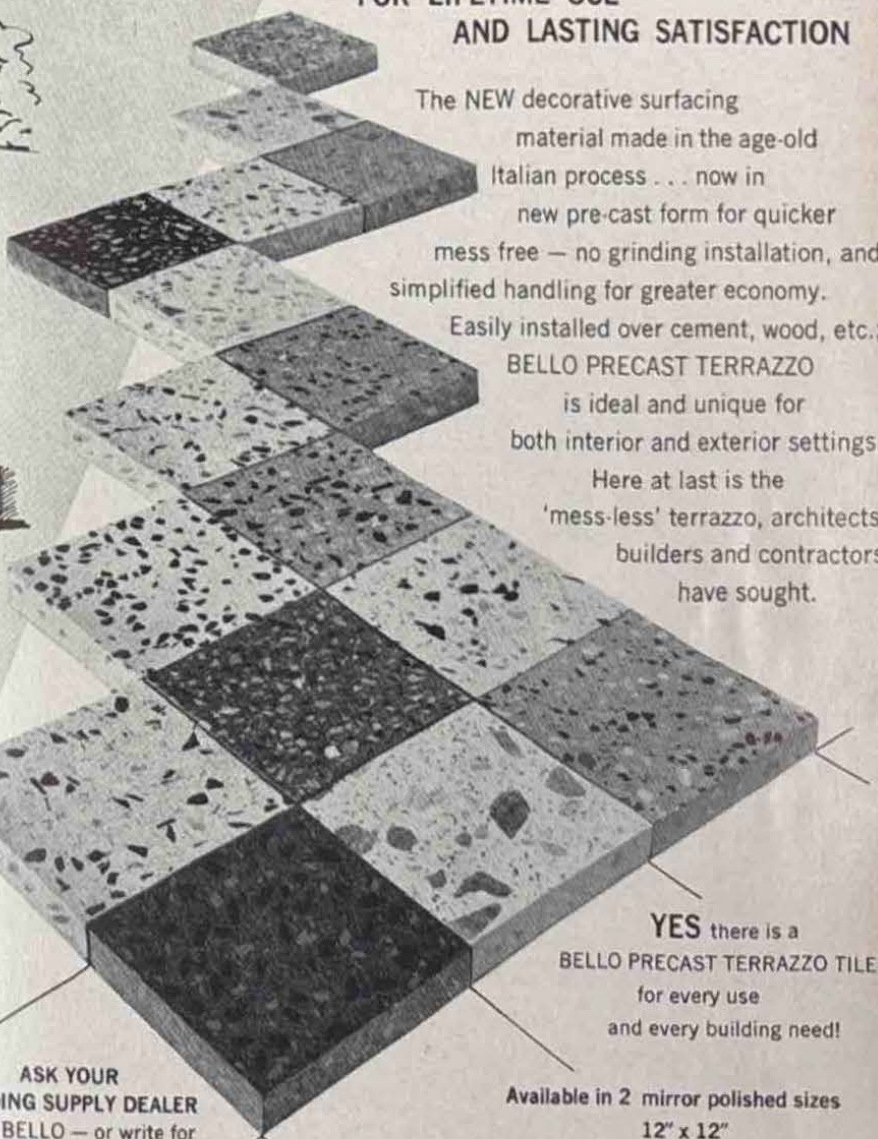

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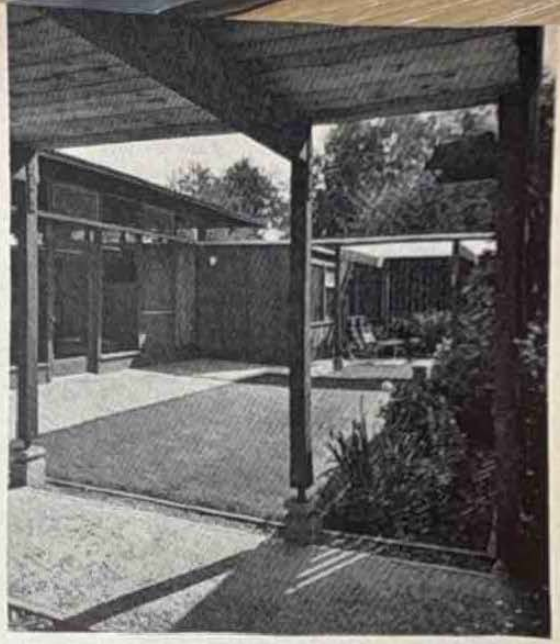
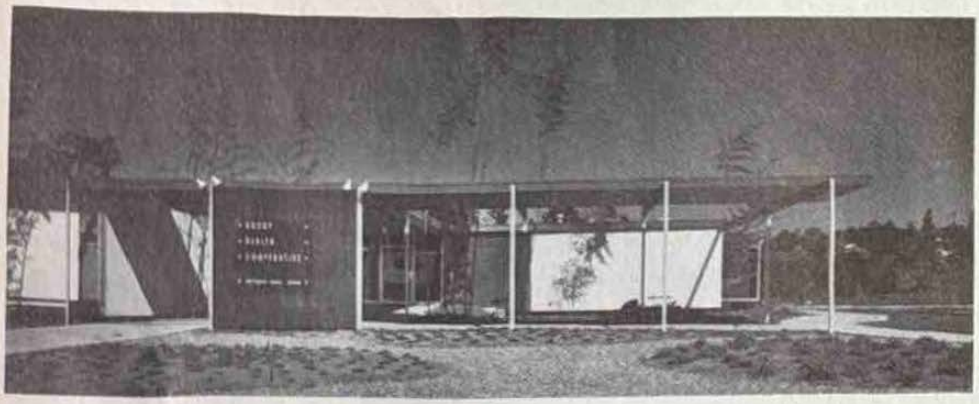
NEWS

Western Washington honors four projects for design

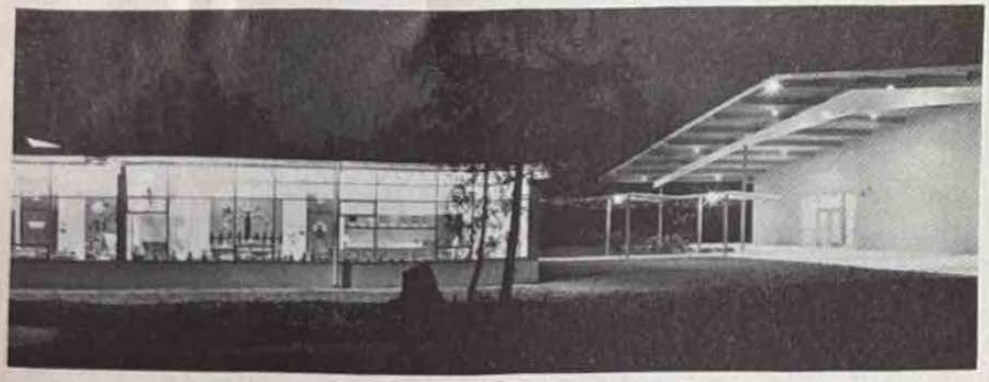
A small residence, clinic, elementary school and shopping center, all in the Seattle area, were cited for design in a competition co-sponsored by the Washington State and Southwest Washington AIA chapters in conjunction with the Northwest conference at Harrison Hot Springs, B.C., last month. An all-architect jury—Louis I. Kahn of Philadelphia, national AIA president John Noble Richards of Toledo and Charles Edward Pratt of Vancouver, B.C.—reviewed 20 entries which had been previously screened from a total of 72, with J. Lister Holmes as competition chairman. Citations were presented to the clients, architects and contractors at a dinner meeting in Seattle November 6.



PAUL W. LANGE RESIDENCE, Mercer Island: A. O. Bumgardner, architect; G.A.N. Co., general contractor.



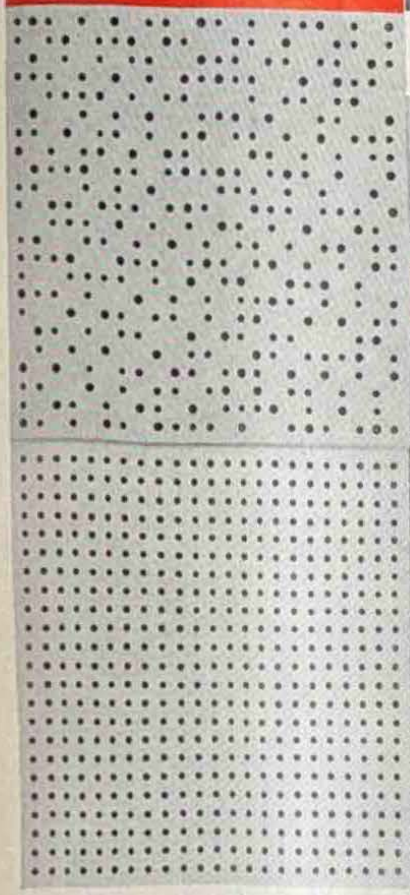
GROUP HEALTH COOPERATIVE CLINIC, Seattle: Paul Hayden Kirk & Associates, architects; Riley Pleas, Inc., general contractor.



ISLAND PARK ELEMENTARY SCHOOL, Mercer Island: Bassetti & Morse, architects; E. F. Shuck Construction Co., general contractor.

M-B SHOPPING CENTER, Renton: Johnston-Campanella & Associates, architects; Baugh Construction Co., general contractor.

2 SOUND ACHIEVEMENTS



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KAISER GYPSUM

KAISER GYPSUM COMPANY, INC. Kaiser Building—1924 Broadway, Oakland, California

NEWS

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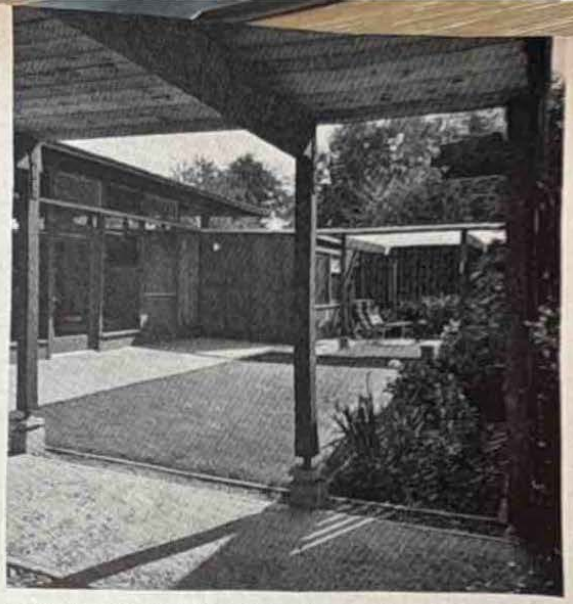

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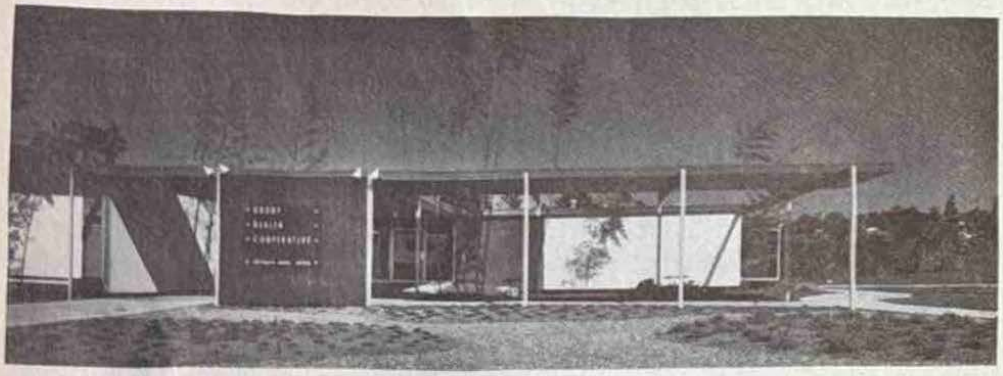

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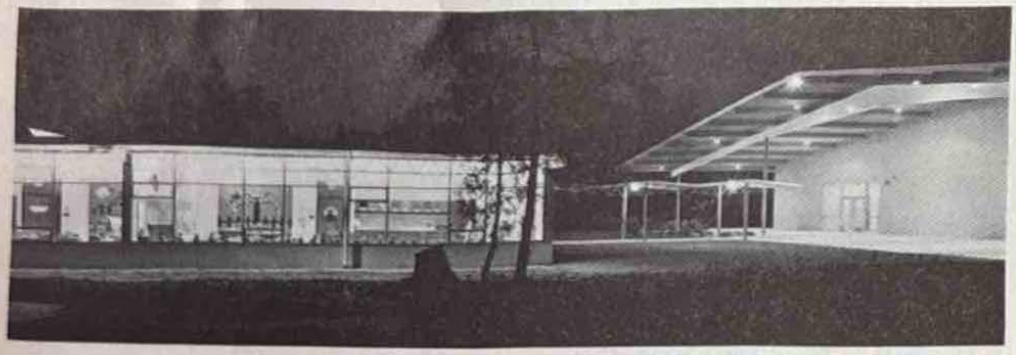

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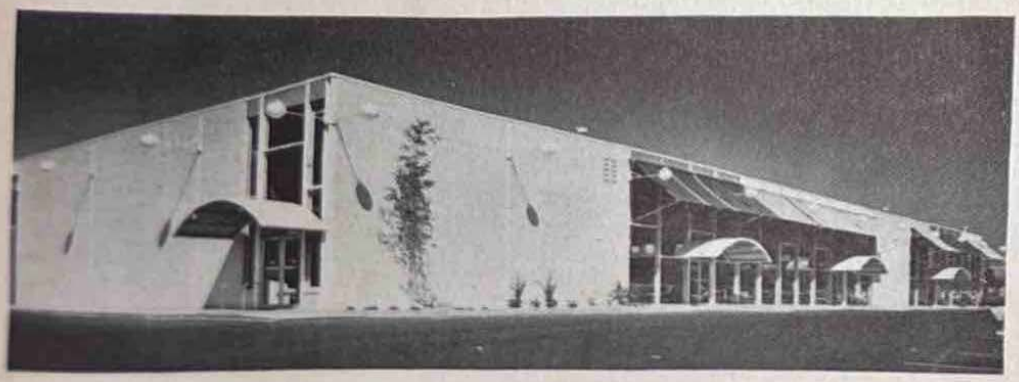

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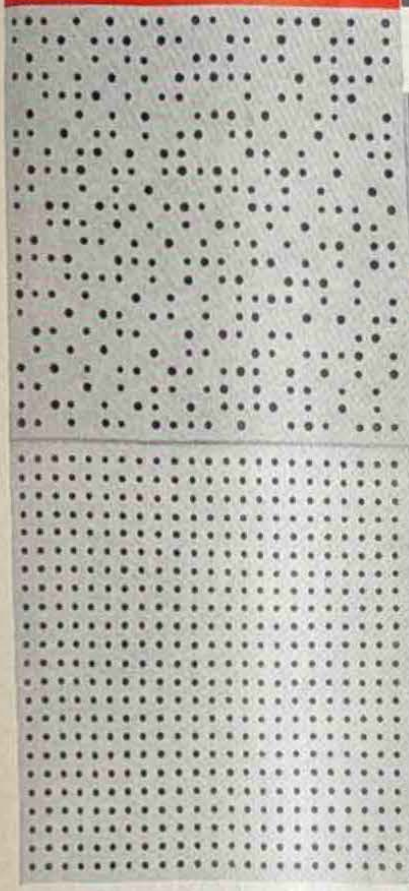

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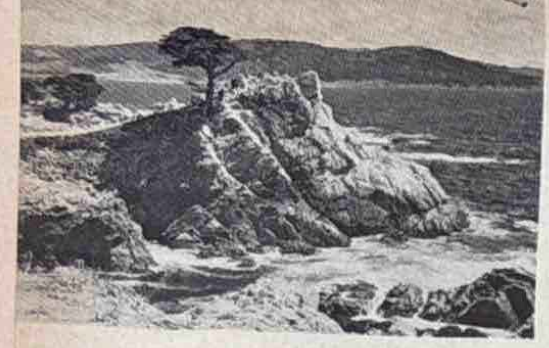


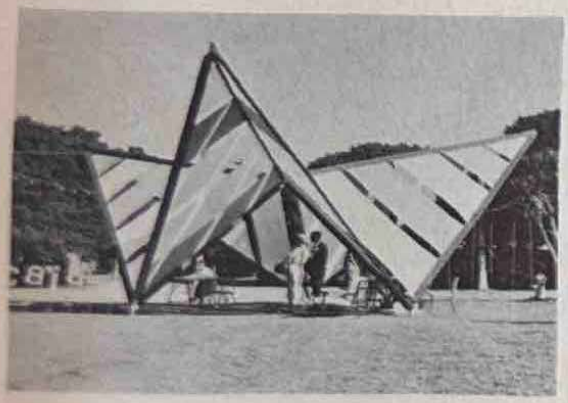
At Monterey: creativity and continuity

• Californians chalk up their finest convention

TOP: Dailey, Lundy, Thiry, Netsch (Southwest Builder and Contractor photo).

LEFT: Severud.

BELOW: Citation winners Balch and Justin.



THEME SETTER erected by students of California State Polytechnic College under direction of George Hasselein, head of architectural engineering department.

From the opening session when a psychologist set out to define "the creative mind" through the closing summary by a Chicago architect, the 13th annual convention of the California Council, American Institute of Architects, displayed an intricate weaving of the theme, "Creativeness in Architecture," into a stimulating and often colorful pattern.

The October 15-18 meeting at the Monterey County Fairgrounds drew a registration of 950, about 350 of whom were architects—a higher proportion than usual and a compliment to the finest professional program ever staged by the Californians. Besides faithfully attending the five sessions (a sixth on the last day was a special seminar for junior associates and students), the registrants viewed the Producers' Council exhibits, enjoyed steak and salmon barbecues at the open air Hunt Club and presented their highest honor, the Distinguished Service Citation, to William Glenn Balch and John C. Austin, both of the Southern California Chapter, at the annual banquet.

It would be difficult to say which of the 16 speakers, including architects and representatives of related professions, made the greatest contribution but surely consulting engineer Fred N. Severud with his refreshing approach to life and architect Victor Lundy with his youthful yet self-assured approach to design were among the most popular.

Make a better world: Severud

The real reason for being creative is to make a better world, said Severud, senior partner in the New York firm of Severud-Elstat-Krueger, consultants on such projects as the Berlin Congress Hall and the Seagram Building.

"Creativity means nothing unless it is working toward a better world," he declared. "We must be convinced that there is a better world first of all; then we must strive to find it."

Architects and engineers can become more creative if they toss aside limiting definitions of titles, Severud said. An architect, for example, should not confine himself only to design but should also know something about engineering and actual construction work. This knowledge gives him more tools to work with in developing his creativity.

Building industry representatives should not be selfish regarding their respective positions but rather think of themselves as "members of a family," he went on. Thus ideas put forth by others in the family can be better considered on their merit alone and good ones will not be lost because of needless jealousy.

"Being creative is the searching for truth," the engineer explained. "There must be a creation in the mind that elevates one, taking him away from the sordidness of the present world and lifting him into a new sphere."

To be completely creative some tools should be put aside, Severud continued. He told his audience that it is often unwise to set ideas down on paper, since these very ideas later can act as chains in preventing the mind from going on to completely different thoughts. This is especially true in the first stages of a problem when the only thing decided on is the problem itself.

Bend a little: Lundy

Leading off a seminar in which three architects explained their individual aproaches to specific buildings, Lundy prefaced his discussion of the Bee Ridge Presbyterian Church in Sarasota and the highly provocative Warm Mineral Springs Inn with some general observations.

"Great architecture must have meaning to man," the 35-year-old Florida architect explained. "Great buildings speak for themselves; they are not precious. Each has its own message and need not be explained."

To Lundy "creative" architecture is a total art which seeks to discover "how Godlike one can design a building in a given set of circumstances. We should quit being soft in creative architecture; we have emerged beyond the Sweet's Catalog concept. When we try to justify everything in our design, we take the fun and adventure out of it."

Noting that overspecialization has become a serious disease, he said that architects may find a solution in a naive, childlike approach and should not be ashamed of an "unusual" building if it is created out of the essence of our culture. "But we are foolish to turn our backs on the lessons of the past," he explained, adding that the brand new is not always the answer.

"Architecture cannot be neutral-

Continued on p. 31

At Harrison: Kahn, Kramer and rain

• Northwest expresses dissatisfaction with Octagon

Philadelphia architect Louis I. Kahn shared the spotlight with Seattle industrial designer Gideon Kramer during the seventh annual conference of the Northwest Region, American Institute of Architects, October 9-12. Other major participants were Melvin M. Rader, professor of philosophy at the University of Washington, and Charles Edward Pratt, architect of Vancouver, B.C.

Joining the conferees from Washington, Oregon, Idaho and Montana for this year's meeting were members of the Architectural Institute of British Columbia, and the 250 registrants (more than half of them architects) found that Harrison Hot Springs can be quite a delightful spot even in four days of continuous rain.

Besides exploring the theme, "Toward a Better Environment," the Northwest delegates took time out to nominate John E. Toohey of Billings as regional director and, in a sense, to censure the national headquarters in the presence of president John Noble Richards of Toledo and Octagon staffers Edwin B. Morris Jr., assistant executive director, and Wolf Von Eckardt, public relations representative.

Kahn and the column

Just what Kahn always meant with his high-level rhetoric was subject to the interpretation of the person who heard it but the Yale University design critic left no doubt that his architectural religion is based on the column ("you must show what it does"). He took issue, for example, with the manner in which Le Corbusier handled this element in Ronchamp.

"You design from a sense of order, then forms emerge," Kahn declared. With a blackboard as his constant companion, both during the principal address and later at a more intimate seminar, he gave forth with a variety of stimulating and often controversial ideas. Some random samplings:

- Architecture is the thoughtful (later changed to "meaningful") making of space.
- "Organic" is a dangerous word. We learn from nature; we should not attempt to imitate her.
- The realization of what is right is the beginning of beauty.
- You are the architect and therefore you should create the environment; instead you let everyone else be the architect (citing as an example the gallery director who forms his own spaces).
- The making of a joint is the beginning of ornament.
- The role of the artist comes out of the architecture; you cannot simply assign a wall to the painter.
- Landscaping is not one thing, architecture another, for both in essence are the making of space.

Asked about the bold splashes of art at the University of Mexico, Kahn said he wished to reserve comment because he had never visited the campus, but he did approve of what he referred to as "making war on space."

Kramer and disorder

Far afield from Kahn was Kramer's humanistic approach to the problem of design. Again and again he emphasized the "sterility of perfection, the stimulus of imperfection," or as he put it another way, "the challenge of disorder."

Explaining that "process" is the most important aspect in design, he deplored the beginning-end orientation which neglects process. "The more alive, the less order; the more creative, the less concerned with order," the industrial design said, commenting that static order does not lead to action.

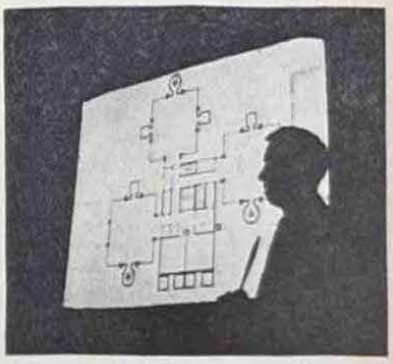
"We must stop worshiping the unattainable, the one answer," Kramer remarked. "What injustices are created in the name of perfection." Referring to the integration of the old and the new, as in campus developments, he admonished his audience to learn to honor differences, especially when they represent advancements.

"We design not buildings but men," Kramer continued. "Yet we deprive man of participation in his own shelter, of meaningful experiences." He constantly returned to his thesis

Continued on p. 33

The Oregon and Southwest Oregon AIA chapters will join forces to hold an all-day meeting at the Benton Hotel in Corvallis December 13, referred to by general chairman Robert Wilmsen of Eugene as the "first annual Oregon State AIA convention."

Art Hupy photos

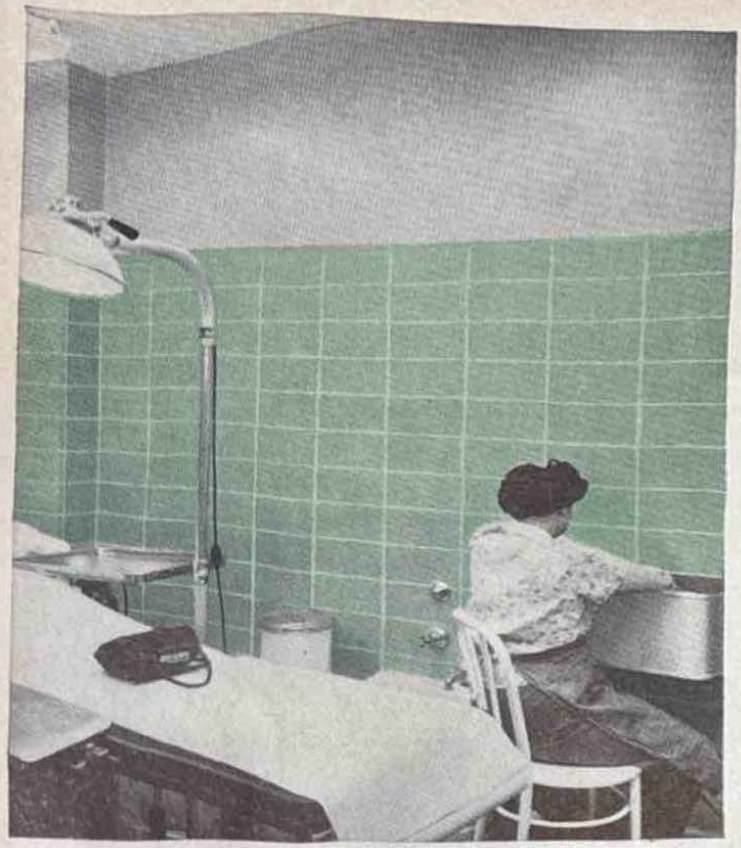


PHILADELPHIA'S KAHN

SEATTLE'S RADER and KRAMER

VANCOUVER'S PRATT

REPEAT PERFORMER KAHN



Ford Motor Company, Milpitas, California
Albert Kahn, Associated Architects & Engineers
Glazed Structural Tile by Kraftile

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What Ford does, Ford does right! Their cheery First Aid Room shown here is only one of many facilities thoughtfully provided in their giant new Milpitas plant. There are first aid rooms, kitchens, cafeterias, shower and locker rooms — all with generous expanses of gleaming, smooth Kraftile glazed structural tile.

In these rooms which do not yield direct profit or production, building and maintenance costs came under extra close scrutiny. Glazed Structural Tile Units are speedily installed as combined wall and finish by only one trade (masonry). A damp cloth cleans it. Glowing, harmonious colors cannot fade. Smooth, marble-hard finish fends off chemicals, acids, grease and steam. Offers no shelter to dirt, vermin, bacteria or rodents. 12 colors plus clear glaze in standardized sizes and shapes. Write for specifications, Graphic Standards and color samples.

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Management responsibility and planned obsolescence

by FRED M. HAUSERMAN

WHILE my subject has a definite bearing on your functions as designers, I come to you as a producer. I approach the topic of planned obsolescence from the standpoint of the building industry in particular.

At the start let me make it plain that there are areas where obsolescence is natural, where the replacement of the old by the new affords pleasure and satisfaction. The ladies, bless them, want style changes in clothes from time to time—and time is getting shorter between change. But these add spice and variety.

My quarrel is with the kind of planned obsolescence that depends for its success on a distoration of basic values; that turns its back on honesty, denies the responsibility of today to the future. I think it's pretty important that we ask ourselves whether we are to permit the slums of tomorrow to be planned on the drawing boards of today? Are we as members of the greatest industrial society ever known to leave as our only monuments rusting junk heaps?

These are not academic questions, mere idle topics for speculation. They are directly concerned with basic decisions we will have to make as producers and designers. Even more deeply, these are questions which deal with our faith in our country, our economy and our own role as producers.

You see some of the fundamental concepts of American business at its best are under fire. There are those who would have us turn our backs on quality and product integrity; they tell us that quality is a luxury we can no longer afford. If we follow this advice, our skills, our experience, our creative gifts will all be dedicated to the unheroic task of building new and better junk piles for tomorrow. For obsolescence is the inevitable result of such a philosophy.

There are those who see intentional obsolescence in products as a good thing; there are others who, through ignorance, have no real understanding of what the proper use of materials should be and what value really is. The first group is the cynics, the unbelievers. "Planned Obsolescence" is their ticket. Don't build for tomorrow; build for today. Forget the structure; concentrate on the facade. Let it wear out or go out of style in a hurry. That way we'll sell the same customers again tomorrow.

Of course, we cannot deny that some obsolescence is inevitable. But there is a big difference between planning to make something obsolete or allowing it to become obsolete through faulty craftsmanship and the natural obsolescence that results from change.

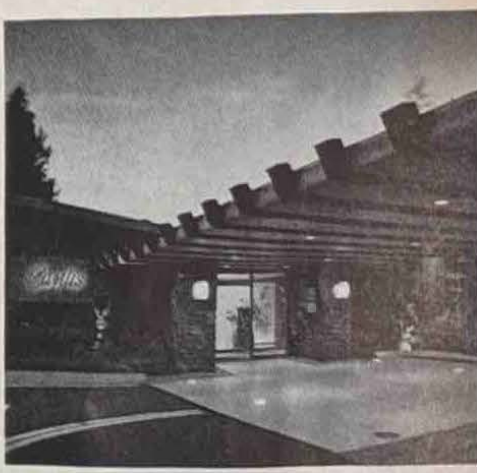
Does this mean that we have to close our eyes to style and beauty? Quite the contrary. It means that we have to pay more careful attention to it than we have ever done before. We must take our position with the great designers, architects and builders of today and the past—men who have always insisted that aesthetics is not a matter of superficial ornaments, not a matter of changing tastes and whims. Once we have taken such a position we have slammed the door on those who would

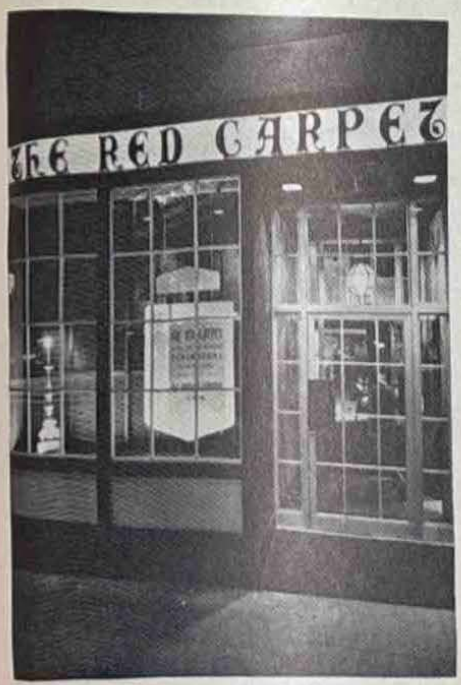
Continued on p. 31

Excerpts from an address given by the president of the E. F. Hauserman Co. of Cleveland before the 14th annual conference of the American Society of Industrial Designers in Bedford Springs, Pa.

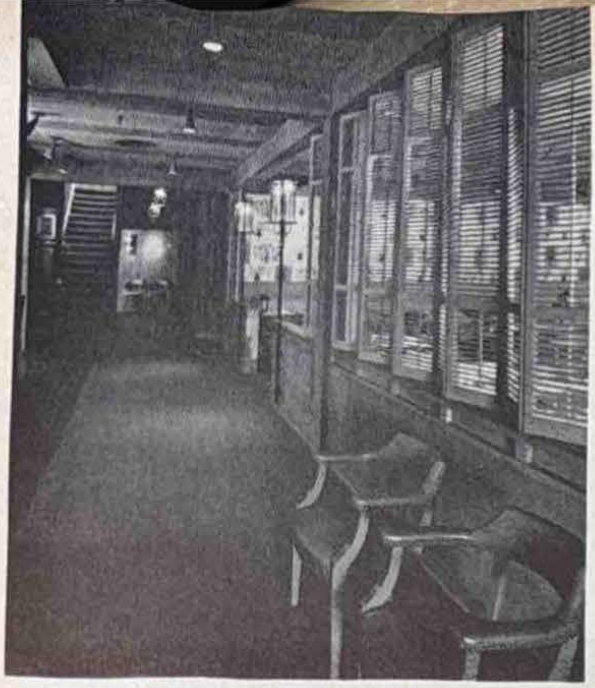
Dearborn-Massar photos

Three restaurants by Terry & Moore





THE TRAVELER who seeks dining adventures on the West Coast will soon discover that the food for the most part surpasses the surroundings in which it is served. He will note the restaurants in southern California which tend to rely on gimmicks and neon lights at the expense of basic design; he will observe a number of satisfying regional expressions, especially in waterfront spots, in the Bay area; and finally, perhaps to his surprise, he will encounter some of the most rewarding establishments—if not in quantity, certainly in quality—in the Pacific Northwest. Among those who have made a significant contribution in this field are Seattleites Roland Terry and Philip A. Moore, who for the past six years have been joining architecture and interior design in happy wedlock. Shown in these seven pages are three of their more recent projects, each presenting its own peculiar problem; each reflecting elegance tempered with restraint, imagination tempered with good taste. In Lakewood Terrace the designers created a new restaurant out of an existing suburban shopping center, Colonial in character; in Canlis' they enlarged and renovated one of the West's most successful operations, which also enjoys a national reputation; and in the Red Carpet they transformed a downtown rush-order coffee shop into a more leisurely dining spot.



Lakewood Terrace
Tacoma, Washington

•

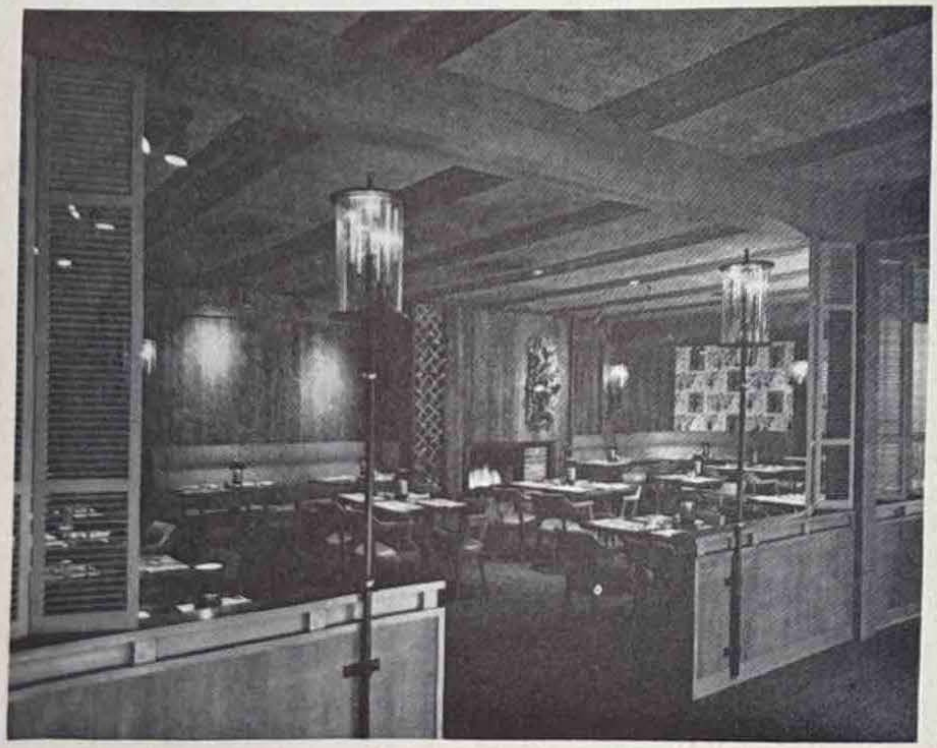
TERRY & MOORE
Architects

KETNER BROS., INC.
General Contractors

THE CLIENT, owner of a long-established suburban shopping center done in a dominantly Colonial style, desired a completely new restaurant created in the same dining space well known to its local, conservative-minded patrons who live a gracious life centering around nearby country club activities. To plan an interior somewhat suggestive of the center's exterior design and compatible with the tastes of the clientele, the architects have made extensive use of driftwood-stained, rough-sawn paneling, beams and louvered shutters and quarry tile floors in main traffic areas.

Since the Northwest climate is akin much of the year to that of Britain, a hint of the English is seen in the warmness of tangerine carpeting and leather club chairs, the open fireplace in the dining room and the charcoal broiler on public view in the foyer. Custom-designed coach lanterns in the dining room and wrought iron wall candelabra of low voltage lamps in wax candles in the lounge further suggest the Colonial. All lighting is dimmer controlled for higher intensity at noon, less in the evening. Banquette seat-back covers are of wool or linen; all materials have been selected for minimum maintenance.

DRIED FLORAL ARRANGEMENT by James Crissey hangs over dining room fireplace.



OUTLINE SPECIFICATIONS

Structure: frame, roof and walls: wood; floors: concrete and wood.

Exterior Finish: cedar bevel siding and brick.

Roof Surfacing: composition with marble chips.

Doors: exterior: glazed metal—Fentron Industries, Inc.; interior: 1¾ in. slab.

Floor Surfacing: quarry tile; carpeting—Bigelow-Sanford Carpet Co., Inc.

Insulation: 4-in rock wool.

Partitions: wood stud and plasterboard.

Interior Finish: stained Alaskan cedar; wallpaper—Piazza Prints, Inc., Wallpapers, Inc.

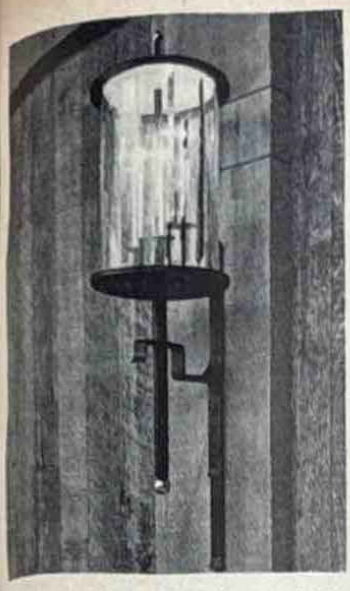
Ceilings: stained cedar boards alternated with acoustical tile—Rockwood Corp.

Lighting Fixtures: custom-designed incandescent.

Special Equipment: shutters—Northwest Millwork Co.; banquette seatback material—Knoll Associates, Schumacher & Co.; chair covering—(Naugahyde) United States Rubber Co., A. Maix's-ing Fabrics, Inc.

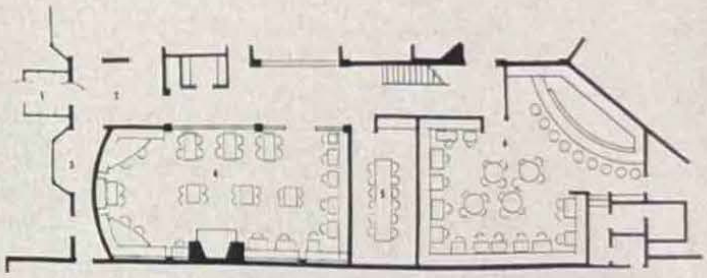
Total Area: main floor (excluding snack bar): 4,278 sq. ft., seating 143; banquet room: 1,736 sq. ft., seating 88.

Date of Completion: November 1957.



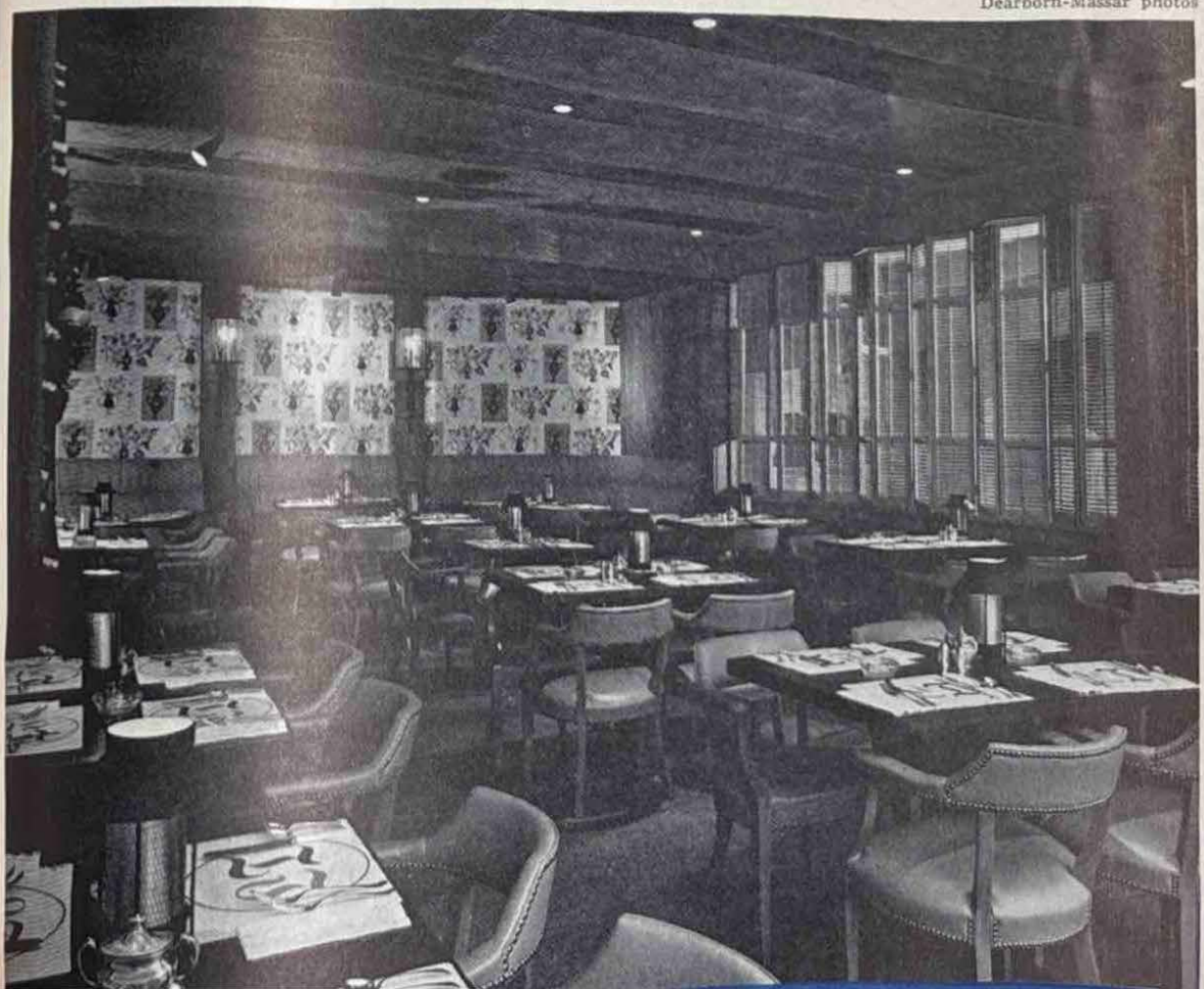
CARRIAGE LAMPS in color glass on plexiglass cylinders are custom designed by Irene McGowan (who also did wrought iron wall sconces) in collaboration with architects.

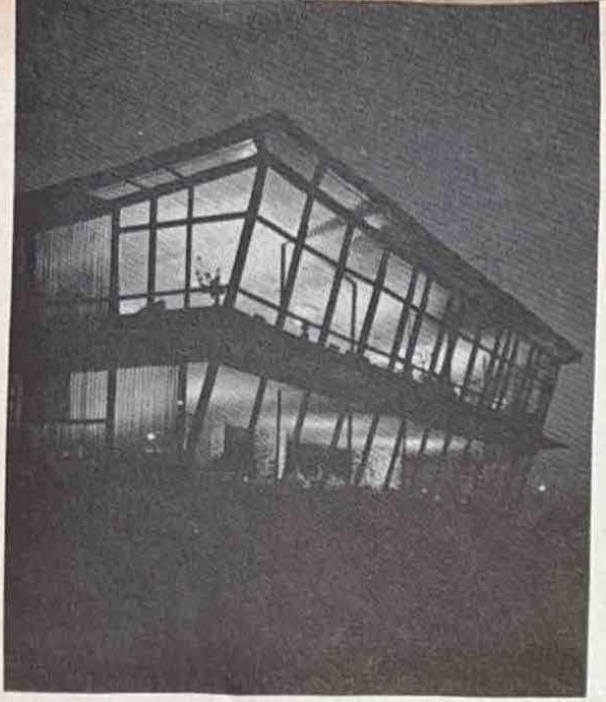
PARTIAL FLOOR PLAN showing (1) vestibule, (2) foyer, (3) waiting room, (4) dining, (5) private dining and (6) lounge. Coffee shop and kitchen-service area are found to north of sections shown.



CONTEMPORARY VERSION of early American floral wallpaper ("Steinberg's Flowers" by Piazza Prints) is used on end walls of dining room to reduce its visual length. Table lamps and place mats are work of Douglas Bennett.

Dearborn-Massar photos





Canlis' Charcoal Broiler Addition
Seattle, Washington

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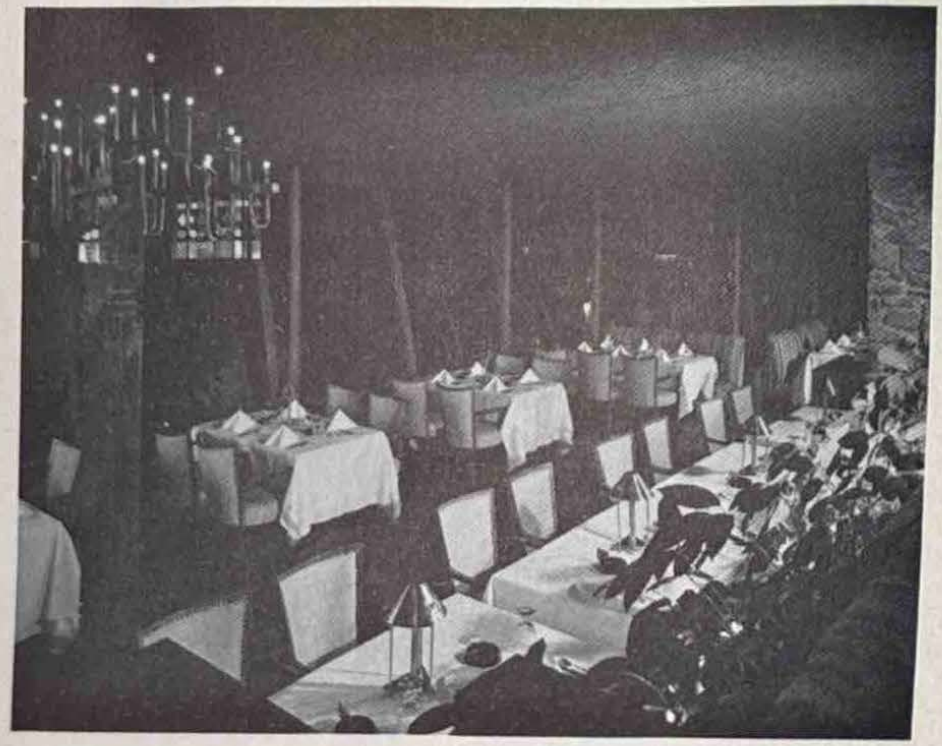
TERRY & MOORE
Architects

AARON NELSON
General Contractor

THE PROBLEM here was to extend considerably and renovate completely existing facilities for both guests and employees, still maintaining the established character of the initial structure (designed in 1949 by Wimberly & Cook, architects; Tucker, Shields & Terry, collaborating architects-interior designers). The result: an intensification of the original plan, emphasizing comfortable dining in an elegant but relaxed atmosphere.

Basic color scheme throughout is a background of dark brown walls of wood, native stone and grass cloth textures, against which are accented many elements of copper and furnishings and carpeting of gold and copper tones. Custom-designed lighting by Irene McGowan, which uses gas lighted and low voltage electric candelabra, is keyed extremely low to produce a candlelight effect. A strong suggestion of the tropics is part of the decor, since the owner has a similar operation in Hawaii, a popular spot with Northwest vacationers. Accessories from the Islands and the Orient are combined with native materials and the work of several major local artists, including a hand-carved door handle by George Tsutakawa and an Italian mosaic tile planter, set off by a Philippine-imported wall of crushed Kappa shells in the foyer, by Philip McCracken.

SLOPING WINDOWS afford spectacular night view of George Washington (Aurora) Bridge across Lake Union, past Capitol Hill and down to mid-town Seattle.



OUTLINE SPECIFICATIONS

Structure: frame and walls: wood; floors: concrete and wood.

Exterior Finish: rough cedar boards and Shuksan stone.

Windows: steel venting section—Fentron Industries, Inc.; sliding aluminum Durell Products, Inc.

Floor Surfacing: carpeting—Mohawk Carpet Mills, Inc., in dining room, Bigelow-Sanford Carpet Co. (architect-designed).

Partitions: wood and plasterboard.

Interior Finish: Philippine-imported Kappa shell wall in foyer; Japanese grass cloth—Wallpapers, Inc.; hand-blocked Japanese gold foil paper—Kelleher-Moffat Associates; mountain tulip veneer — (Flexwood) United States Plywood Corp.

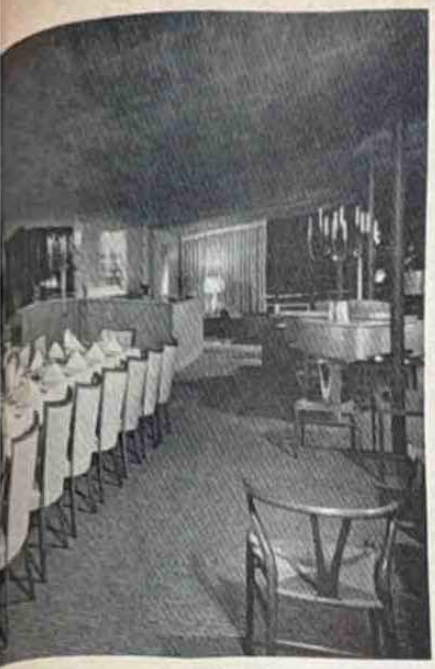
Ceilings: plasterboard covered with grass cloth; acoustical tile—Rockwood Corp.

Lighting Fixtures: custom-designed copper incandescent and carriage lamps.

Special Equipment: gold Venetian mirrors—Parker-Henry Glass Co.; banquette seat-backs — woven by Jack Lenor Larsen; chair covering—vinyl grass cloth and genuine leather—Clark & Burchfield, Inc.

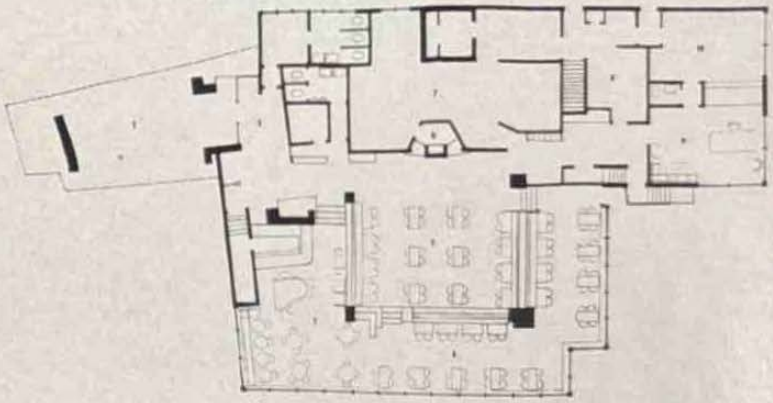
Total Area: main floor: 1,900 sq. ft., seating 98; new mezzanine and private dining room: 1,640 sq. ft. (1,150 sq. ft. remodeled), seating 70; basement, storage, etc.; 1,900 sq. ft.

Date of Completion: April 1958.



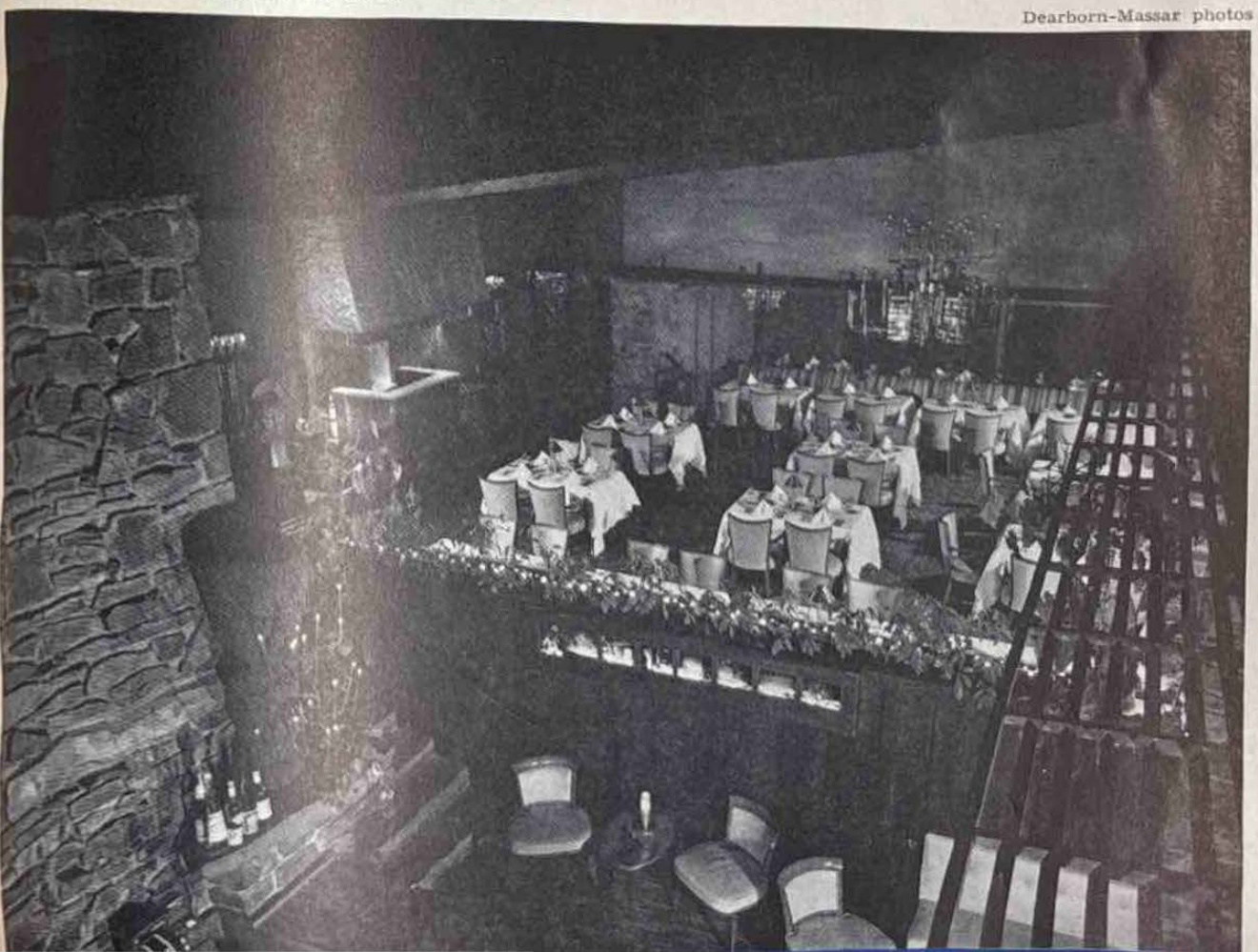
PENTHOUSE DINING ROOM can accommodate private parties up to 50 guests. Yellows, beiges and browns predominate, with west wall of gold Venetian mirrors.

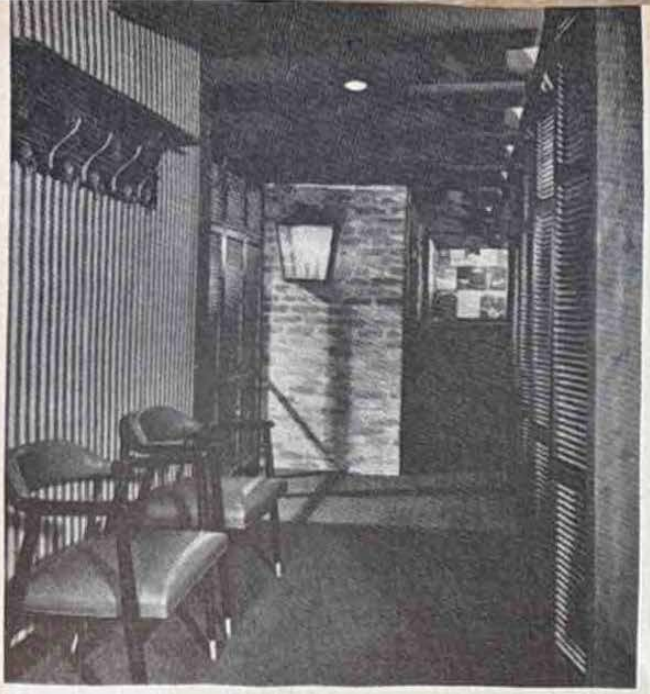
MAIN FLOOR PLAN showing (1) porte' cochere, (2) entry, (3) lounge, (4) lower dining, (5) upper dining, (6) broiler, (7) kitchen, (8) storage, (9) office-private dining and (10) secretary. Larger private dining room (photo at left) is on mezzanine.



MAIN DINING AREA has lower level lanai at north end (beyond light fixture). Banquette seat-back material was custom woven by Jack Lenor Larsen.

Dearborn-Massar photos





The Red Carpet
Seattle, Washington

•

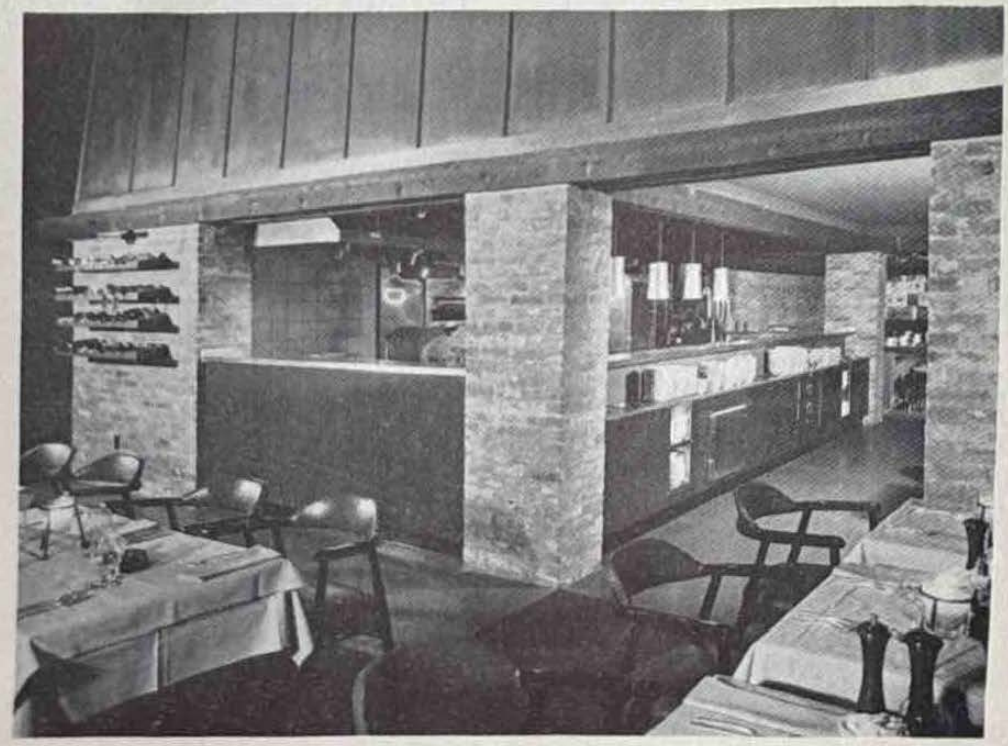
TERRY & MOORE
Architects

LOCKNESS & ROAN
General Contractors

PLANNED for an owner whose original operation on the same site was a rush-order coffee shop, this new conception affords appropriate background for a clientele interested in more leisurely and refined luncheons and dinners. Principal design effort was to create an atmosphere as a relief to the severe commercial aspects of the restaurant's immediate neighborhood in downtown Seattle.

The charm of the Old World theme is conveyed through used brick walls, dark-stained paneling and shutters, red leather banquettes, oak tables, Japanese striped linen paper in the foyer and continental antique accessories, among them Italian altar candlesticks in the entrance windows to help set the tone. Exterior facade combines charcoal-stained rough timbers with gold anodized aluminum. Hanging heraldic signs of gold leaf and red lacquer by Emery Duquet advertise the establishment's facilities; carved door handles are by George Tsutakawa.

OPEN CHARCOAL BROILER under brass hood where most entrees are prepared makes festivity of food preparation integral part of restaurant's character.



OUTLINE SPECIFICATIONS

Structure: frame: concrete; walls: concrete block and brick; floors: concrete.

Exterior Finish: charcoal-stained rough timbers; gold anodized aluminum—Fentron Industries, Inc.

Doors: exterior: gold anodized aluminum—Fentron Industries, Inc.; interior: hollow core wood.

Floor Surfacing: cupric oxychloride cement—Hubbellite Corp.; carpeting—Mohawk Carpet Mills, Inc.

Partitions: plaster and brick.

Interior Finish: mountain tulip veneer—(Flexwood) United States Plywood Corp.; wallpaper—Wallpapers, Inc.

Ceilings: acoustical plaster.

Lighting Fixtures: custom-designed incandescent; imported antique and hanging lanterns.

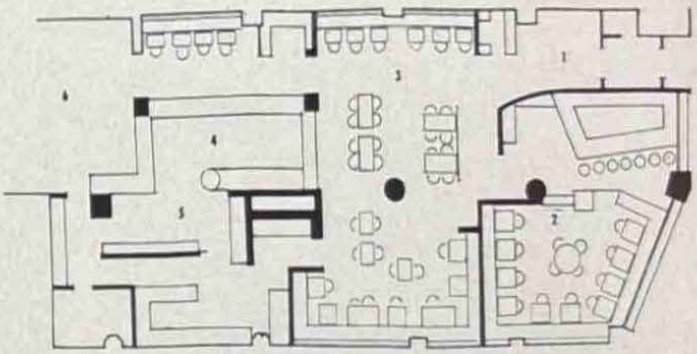
Special Equipment: shutters—Northwest Millwork Co.; banquette seats—A. Maix's-ing Fabrics., Inc.; banquette seat-backs and chair covering—(Boltaflex) Bolta Products Division, General Tire and Rubber Co.

Total Area: 3,750 sq. ft., seating 117.

Date of Completion: September 1956.

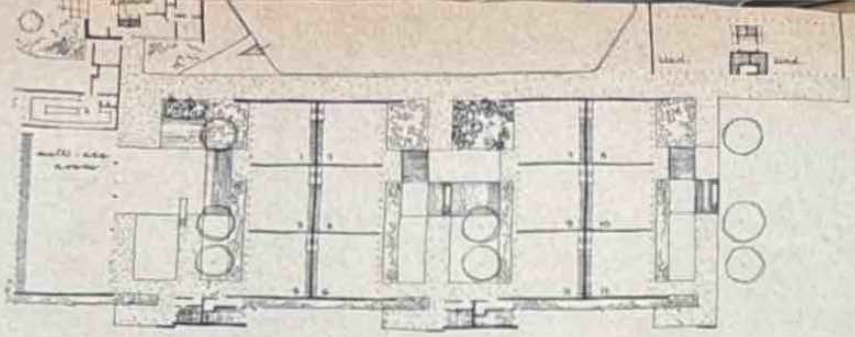
ANTIQUE LIGHTING FIXTURES include 16th century Spanish standing lantern (above) and 18th century English coach lamps in lounge, hanging lantern from Versailles in foyer.

PARTIAL FLOOR PLAN showing (1) foyer, (2) lounge, (3) dining, (4) broiler, (5) kitchen and (6) broiler dining, with restrooms beyond.



OWNER'S COLLECTION of American and European menu covers provides major decorative wall accent in dining room. Chandeliers are by Irene McGowan in collaboration with architects.

Dearborn-Massar photos



Back-to-back classrooms enlarged by courts

Victoria Elementary School
Riverside, California

•

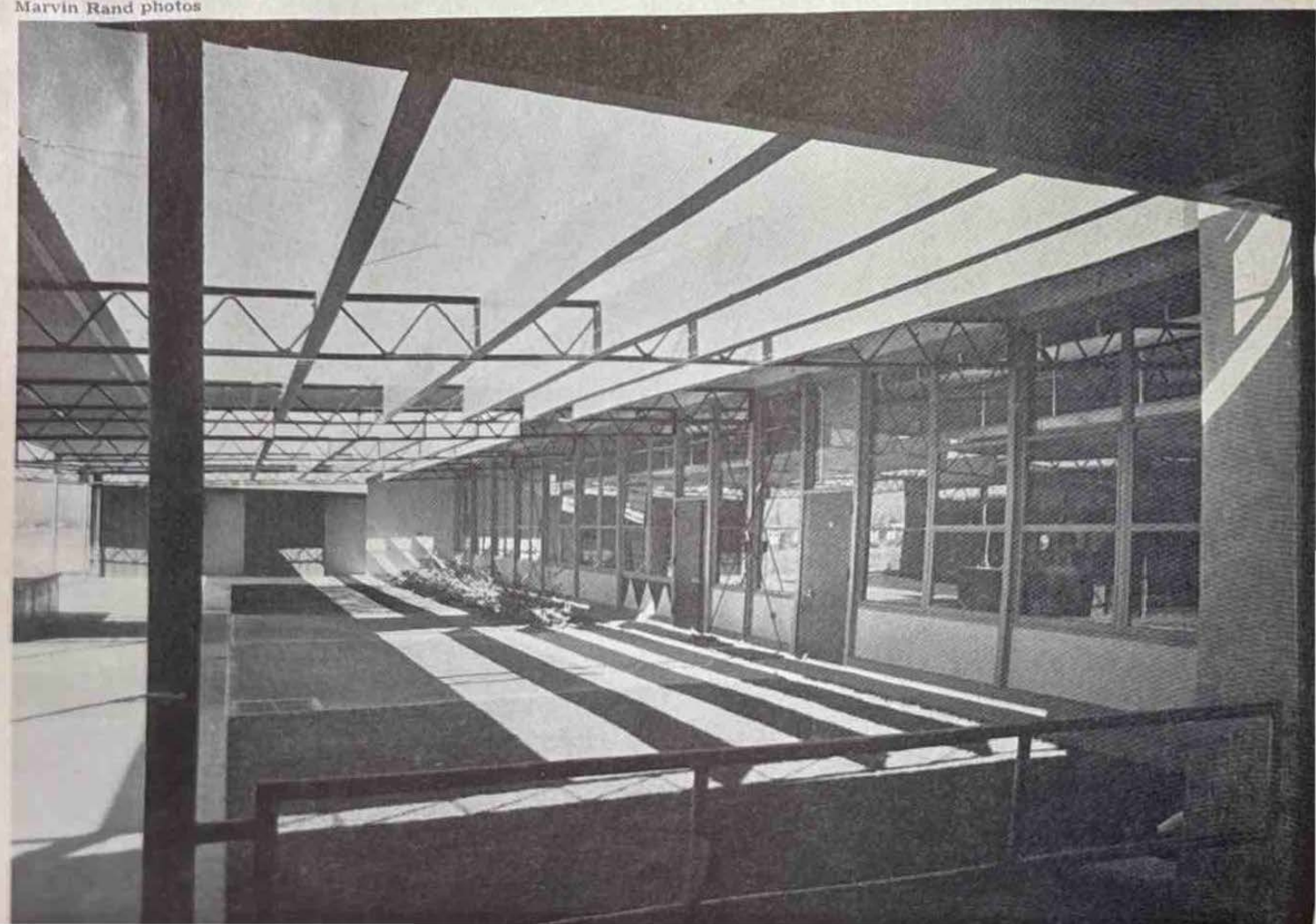
CAUGHEY & TERNSTROM
Architects

WILLIAM PORUSH
Structural Engineer

HILBURG & TURPIN
Mechanical-Electrical Engineers

T. C. PRICHARD & SON
General Contractors

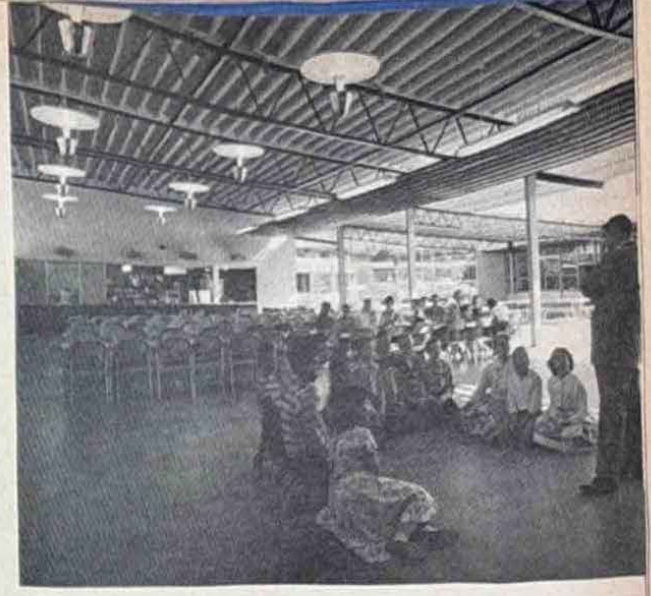
Marvin Rand photos

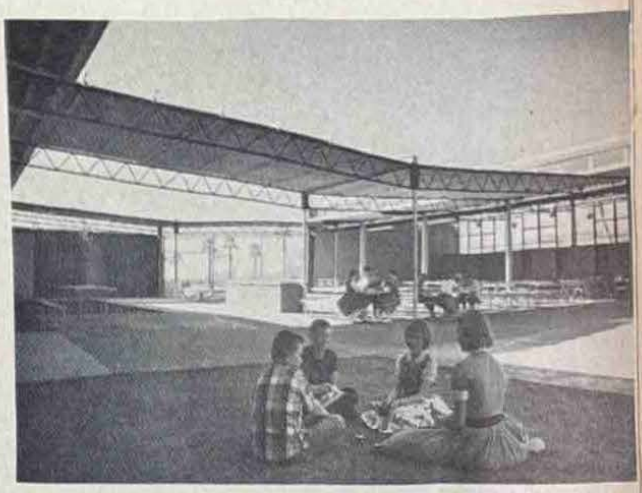


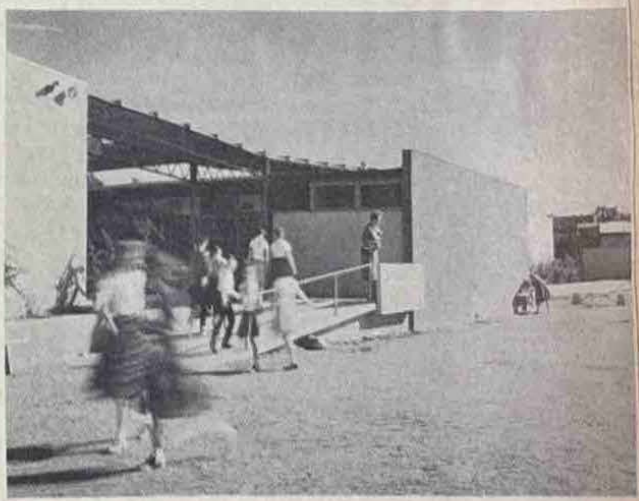
THIS ELEMENTARY SCHOOL, whose present enrollment is 360, appears to be quite unpretentious but it has an unusually workable plan of back-to-back classrooms enlarged by courts. The gently sloping site, rather small in view of future expansion, requires the use of ramps and two separate levels. Buildings are fitted tightly on the upper side to provide maximum playground space, with an odd shaped corner reserved for kindergarteners.

The back-to-back classroom solution offers 1) better site utilization; 2) economies in construction; and 3) pleasant, really usable courts designed for interclass activity or open air eating and spacious enough to minimize distractions. A central utility core facilitates removal of walls when desired; movable cabinets and chalkboards aid teaching flexibility. Sink and storage counters in the courts expedite outdoor instruction, eliminating the need for an installation at each classroom. Fluorescent fixtures supplement daylight and cross ventilation is afforded by a continuous roof unit.

The open, no-glazed side of the multipurpose room creates additional space and the same personnel can supervise both hot and sack lunchers. The area is large enough to accommodate such events as the PTA carnival. Radiant heat allows all-year round use; fenestration and fencing control the wind. Glare and reflection in all courts are reduced by lawn, brick and colored concrete areas as well as overhead louvers and roofs.







OVERHEAD LOUVERS put shadow on otherwise hot ground plant, easing eye strain, creating livability. Center walkway eliminates passing by classroom window wall, acts as glare control; crossover walkways reduce circulation. Ramps connect two levels of gently sloping site.

OUTLINE SPECIFICATIONS

Structure: foundation: reinforced concrete; frame: open-web steel beams; floors: concrete slab.

Exterior Finish: stucco—California Stucco Co.; brick—(Grout-Loc) Davidson Brick Co.

Roof Surfacing: composition and gravel—Pioneer Division-Flintkote.

Windows: steel sash—(Truscon) Republic Steel Corp.

Doors: steel—(Kalamein) Overly Manufacturing Co.

Floor Surfacing: asphalt tile in classrooms—(Matico) Mastic Tile Corporation of America; vinyl tile in kitchen—(Vinyliflex) Hachmeister, Inc.

Partitions: stud and plaster.

Interior Finish: plywood finished shear panels; ceramic tile in toilets—Gladding, McBean & Co.

Ceilings: acoustical tile—Pioneer Division-Flintkote.

Lighting Fixtures: fluorescent; others—Wagner-Woodruff Co.

Heating: gas fired wall heaters—Payne Furnace Co.; electric heaters for smaller rooms—Thermador Electrical Mfg. Co.; gas fired boilers in multipurpose and kindergarten—Bryan Electrical Manufacturing Co.; radiant in administration—Trane Co.; radiant controls—Minneapolis-Honeywell Regulator Co.; exhaust fans—Ilg Electric Ventilating Co.

Plumbing and Sanitary: toilets and lavatories—Crane Co.; drinking fountains—Haws Drinking Faucet Co.

Special Equipment: aluminum louvers—Aetna Steel Products Corp.; porcelain enamel letters—California Metal Enameling Co.; linoleum countertops—Armstrong Cork Co.; laminated plastic tabletops—Formica Co.; folding tables—Son-Nel Products, Inc.; rolling counter doors—Cookson Co.; sinks and drainboards—job-built stainless steel; dishwashing machine—Hobart Manufacturing Co.; garbage disposer—Waste King Corp.; lockers—Worley & Co.; corkboard—Armstrong Cork Co.; chalkboard—(Fibraslate) Son-Nel Products, Inc.

Total Area: 24,425 sq. ft.

Total Cost: $339,483 (entire contract).

Cost per Square Foot: $13.47.

Date of Completion: November 1956.

Division Office Building
Industrial Indemnity Co.
Fresno, California

•

WHITE, HERMANN & STEINAU
Architects

ROBINSON & GIDDINGS
Structural Engineers

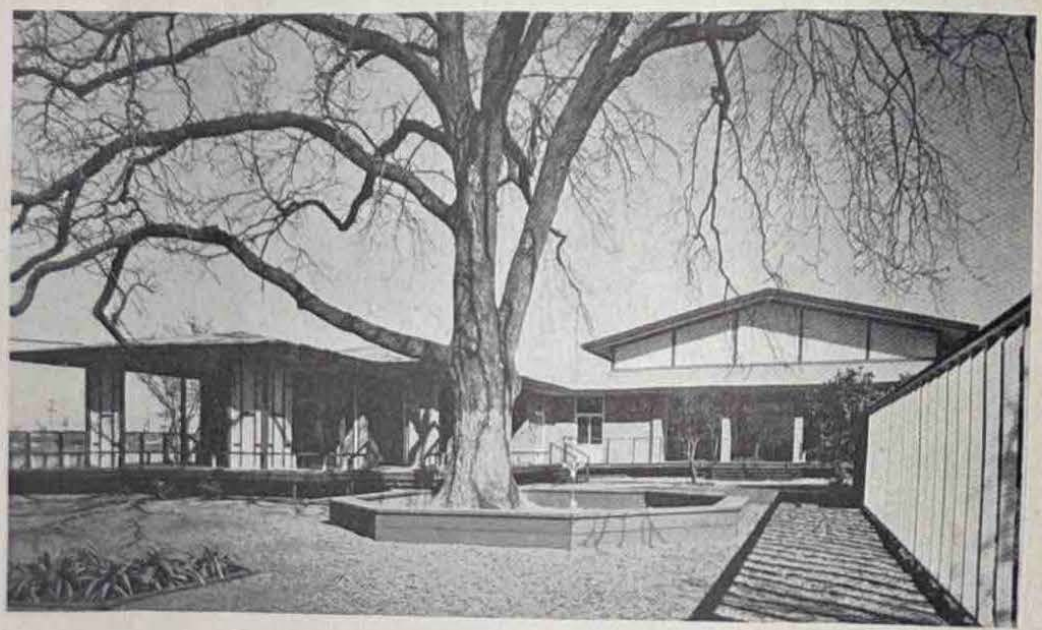
BUONACCORSI & MURRAY
Mechanical-Electrical Engineers

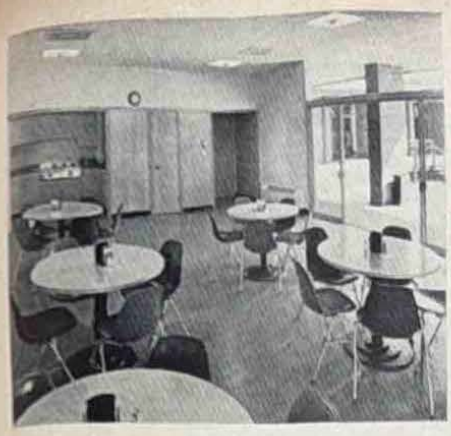
THOMAS CHURCH
Landscape Architect

HARRIS CONSTRUCTION CO., INC.
General Contractor

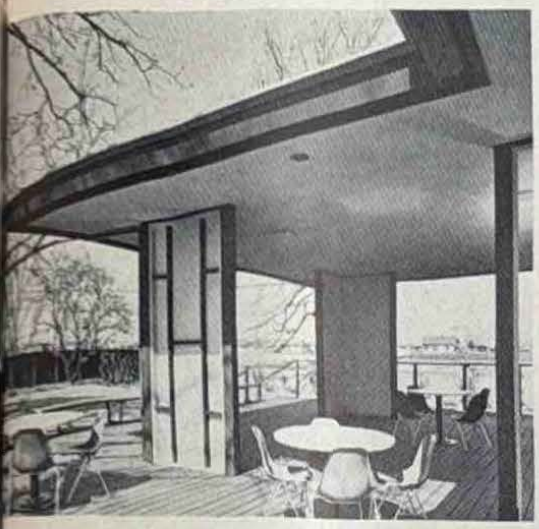
Phil Fein photos

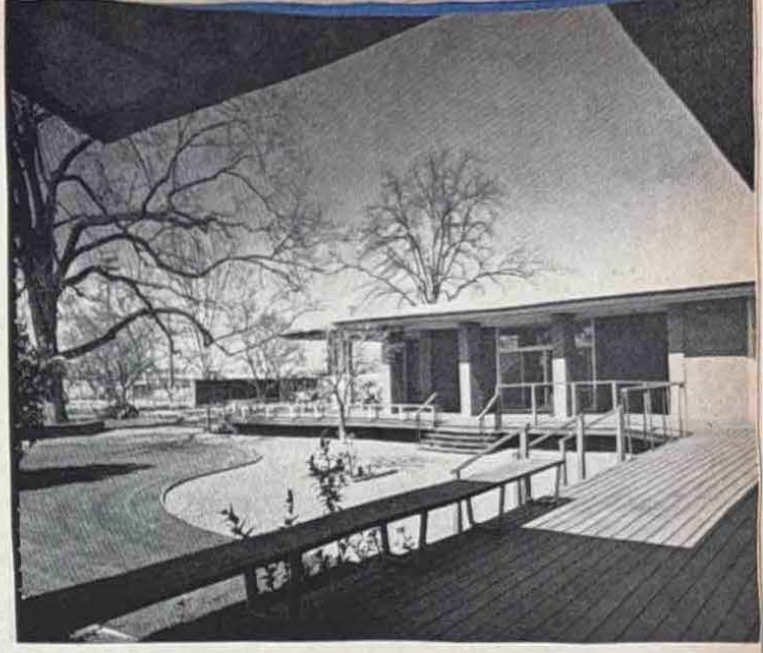
Free from pretense in harmony with the site





LUNCHROOM AND REST FACILITIES are located for best relationship to orchard and separated from working areas. Employees also have library.





THE CLIENT, outgrowing rented space in its Fresno office, selected a site of more than four acres on the city's agricultural fringe because of accessibility and the unspoiled character of the semi-commercial neighborhood. The building is set back considerably from the street to save an existing orchard, including a large, handsome pecan tree with a 100-ft. spread. Parking for claimants is in front and for employees in the rear, in line with the overall separation of external and internal company activities. The large general office is oriented to the north, with claims offices and service facilities to the south for sun control in working areas.

Materials, details and methods of construction have been developed with special regard to the neighborhood and orchard, generally of a comfortable and dignified nature, free from cliches or pretense. Exterior is of local brick, stucco, redwood and glass; interior of plaster, wood paneling, acoustical tile ceilings and plastic floor tile. The wood frame floor, raised for flood safety, also provides space for changes or additions of mechanical or electrical work.

OUTLINE SPECIFICATIONS

Structure: foundation: concrete; frame: wood and steel; roof, walls and floors: wood.

Exterior Finish: brick—Craycroft Brick Co.; stucco, redwood and glass.

Roof Surfacing: built-up with tan gravel—Decorock, Inc.

Windows: steel sash—Soule' Steel Co.

Doors: exterior: steel sliding—Arcadia Metal Products; interior: solid core slab.

Floor Surfacing: plastic, asphalt, vinyl (Custom Corlon) and linoleum (Linotile) tile—Armstrong Cork Co.

Insulation: wool batts—United States Gypsum Co.

Partitions: job-built wood and glass.

Interior Finish: painted plaster; wood paneling.

Ceilings: acoustical tile—(Forestone) Simpson Logging Co.

Lighting Fixtures: fluorescent—(All-Brite) Fluorescent Fixtures of California; incandescent — Prescolite Manufacturing Co. Smoot-Holman Co., Peerless Electric Co., (Marco) Marvin Manufacturing Co.

Heating: boiler—Ajax Boiler and Heater Co.

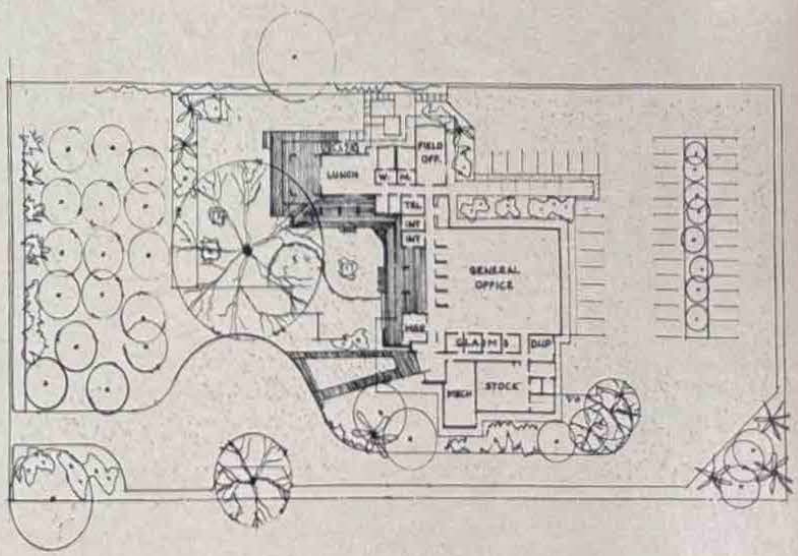
Air Conditioning: air handling equipment, compressor and evaporative condenser—Trane Co.

Plumbing and Sanitary: water closets and lavatories—American Standard; drinking fountains — Westinghouse Electric Corp.

Total Area: enclosed: 11,900 sq. ft.; deck: 3,300 sq. ft.; covered walk: 1,100 sq. ft.

Cost per Square Foot: $18.

Date of Completion: March 1957.



Applications of prestressing in shell structures, lift slab and precast elements

Digests of three papers presented at the 10th regional meeting of the American Concrete Institute in Seattle

LONG-BARREL CONCRETE SHELLS roof auditorium and gymnasium of junior-senior high school in Yakima, Wash., designed by Cowan & Paddock, architects.

Prestressing of Cylindrical Concrete Shell Structures—John B. Skilling and John V. Christiansen, Worthington & Skilling, Seattle.

Both prestressing and thin shell construction have tended to free reinforced concrete from its traditional massiveness and have enabled architects and engineers to realize some of the economic and aesthetic possibilities of concrete structures, especially in long-span roof construction.

Post-tensioning strands may be placed in the shell structure in any of the basic elements of the cylindrical shell: the shell, the longitudinal edge beams, or the transverse end stiffeners. Strands may be placed longitudinally in the shell to good advantage. The prestressed strands may be draped in the shell from near the lower edge at center of span up into the diagonal tensile zone near the ends of the span, thus closely following the lines of principal tensile stress. However, from a practical standpoint this arrangement may be somewhat limited because of the thinness and curvature of the shell and end anchorage in a thin slab may prove difficult.

Prestressed strands may be placed in the edge beams parallel to the axis of the shell. Although the amount of the curvature of the strands is limited by the depth of the beam, this arrangement has the practical advantage of providing a wider section in which to place the strands, limiting the curvature of the strands to one plane, and larger and fewer strands with conventional end anchorage can be used.

Prestressed strands may be placed in the transverse stiffeners at right angles to the axis of the shell. This may be of special value when the arrangement of stiffeners also results in large direct or flexural tension stresses in the stiffener.

Two structures recently completed in Washington illustrate the use of prestressing with cylindrical concrete shell structures. A junior-senior high school in Yakima features long-barrel cylindrical shells with prestressed edge beams over the auditorium and gymnasium. Eleven identical shell units, 16 ft. wide and 2½ in. thick, are used to span 93 ft. clear over the school auditorium. Five similar shell units, 41 ft. wide and 3 in. thick, span 135 ft. over the gymnasium.

The Boeing Airplane hangar roof at Moses Lake, Wash., is an example of cylindrical shells with prestressed transverse stiffeners. The building is 378 ft. wide and 1,076 ft. long. Clear span of the airplane bays is 215x378 ft. with a maximum height of 63 ft., 1½ in. in the center. Fifty-foot wide supporting shop bays are provided between each plane bay. The roof structure consists entirely of 3-in. cylindrical thin shells stiffened by transverse arches and girders and longitudinal edge beams.

Economic Factors in Prestressed Lift Slab Construction—Edward K. Rice, partner, T. Y. Lin & Associates, Los Angeles.

To date, 41 structures involving 2,000,000 sq. ft. of prestressed lift slabs have been constructed. The completed structures range in size and occupancy from 10,000-sq. ft. industrial buildings with roof parking to a six-story office building of 250,000 sq. ft.

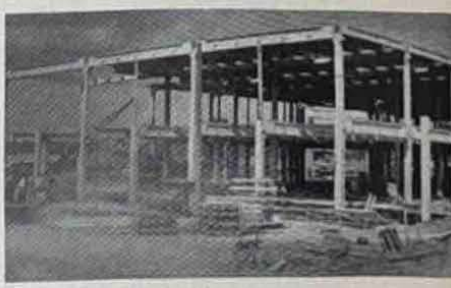
A major factor in the success of prestressed concrete and lift slab construction is that the prestressing and the lifting technique complement each other. By prestressing the slabs, troublesome deflections experienced in reinforced slabs can be controlled; by using the lift slab construction method, the elastic and some of the plastic shortening of the slabs can be conveniently allowed for before the connection to the columns is made.

Not all structures can be economically framed of prestressed concrete lift slab construction. To economically achieve satisfactory results with lift slab spans greater than 18 ft., the slabs must generally be prestressed. Solid slabs are economical for spans of 20 to 30 ft. Bays of 30 to 50 sq. ft. are economical in prestressed cord lift slabs. Some of the types of structures which are not readily adaptable to prestressed concrete lift slab construction include structures on hillsides with stepped-grade slabs, structures having a fairly close spacing of concrete walls which may be used as bearing walls and structures of highly irregular shape. From the standpoint of total economy, the building layout and structural framing scheme is more critical in prestressed lift slab construction than in other types of construction.

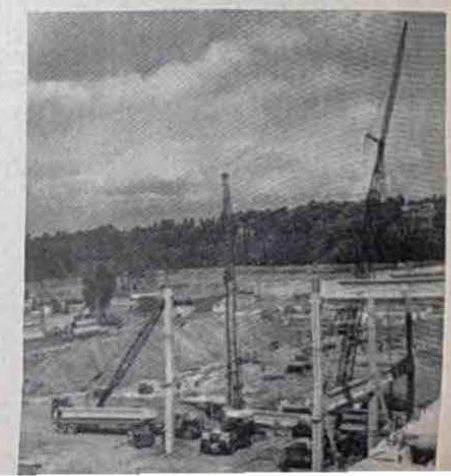
Design and Construction of a Precast and Prestressed Concrete Building for Boeing Airplane Co. Developmental Center—Alfred T. Waidelich, vice president, The Austin Co., Cleveland, and Arthur R. Anderson, Anderson, Birkeland & Anderson, Tacoma.

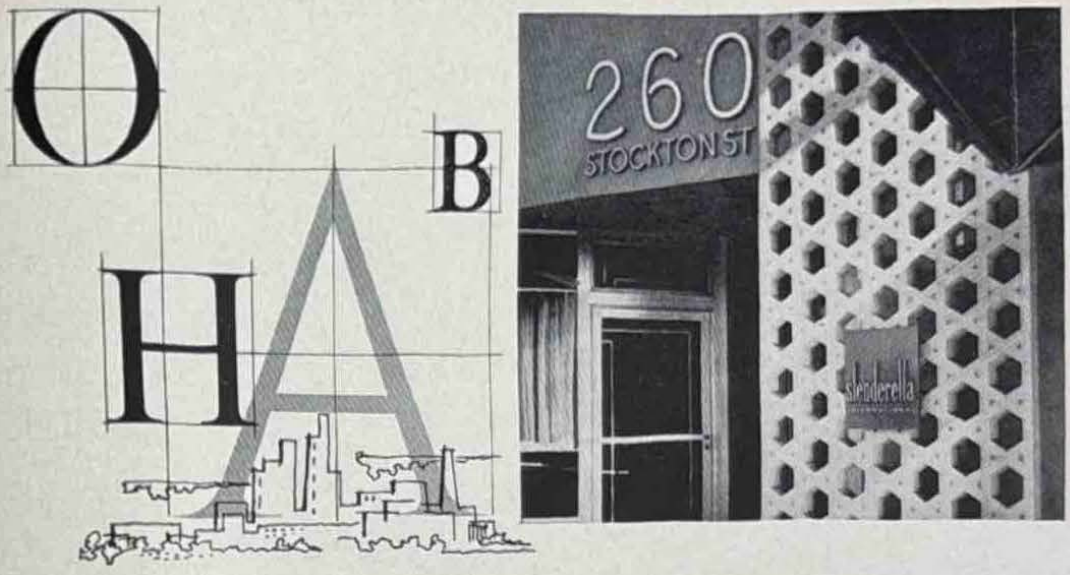
The building is a two-story structure, 540x560 ft. The second story is framed on a 40x60 ft. module and the

Continued on p. 24



PREFABRICATED CONCRETE MEMBERS are jointed together to achieve continuity of monolithic structure.





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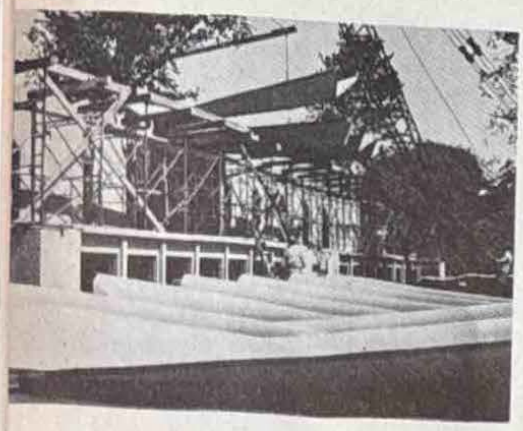

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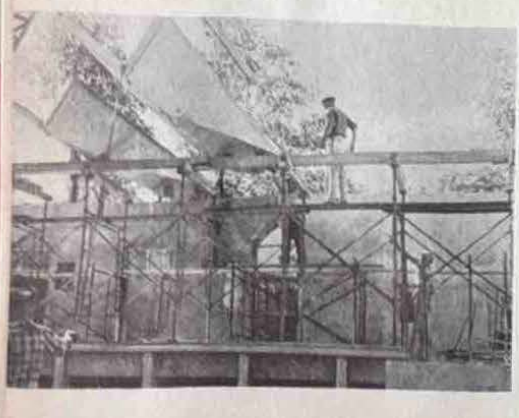

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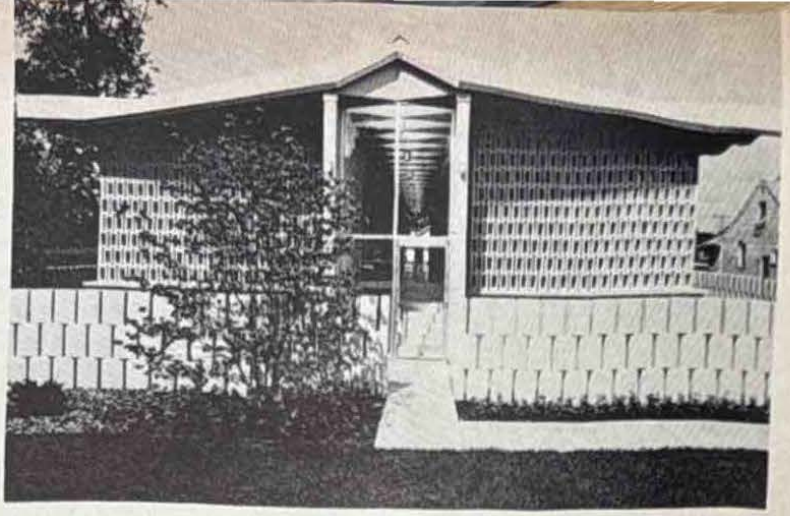


ACI Headquarters in Detroit: poetry in concrete

1. Precast folded plate roof units are cast on jobsite. Using three forms, two roof sections are cast daily, weather permitting. Roof unit in foreground is being finished while to left, reinforcement is in place for casting next section. Unit in center rear is being cured under burlap and awaiting lifting from form.

2. After curing, each folded plate roof section is measured and numbered to determine over- and under-width tolerances. An erection sequence is then prepared to avoid cumulative overrun. Roof units are moved into location by crane prior to being lifted into place.

3. Precast folded roof units are erected by crane. One end of each unit rests on corridor wall and other on temporary adjustable scaffolding. Latter is removed after units are connected across corridor and to dowels in corridor wall.

4. When structural unit of roof is established by welding connections across corridor, to dowels in wall and between precast roof units, adjustable shoring is removed to leave roof cantilevering into space. Folded plate roof cantilevers 19 ft. front and rear from center corridor load-bearing walls.

5. Front facade assumes finished look with glazing completed. Textural contrast between first floor precast panels and basement precast grills is noticeable. Light colored exposed aggregate panels are set in sash at base of window wall for first floor. Smooth dense grey concrete is used for heavier precast grills installed to shield basement windows.

6. End view of completed building showing garden wall and rectangular hollow block screen. Diamond pattern of corridor skylights creates varying shadows on fluted walls.

Boeing's prestressed concrete building (Cont'd from p. 22)

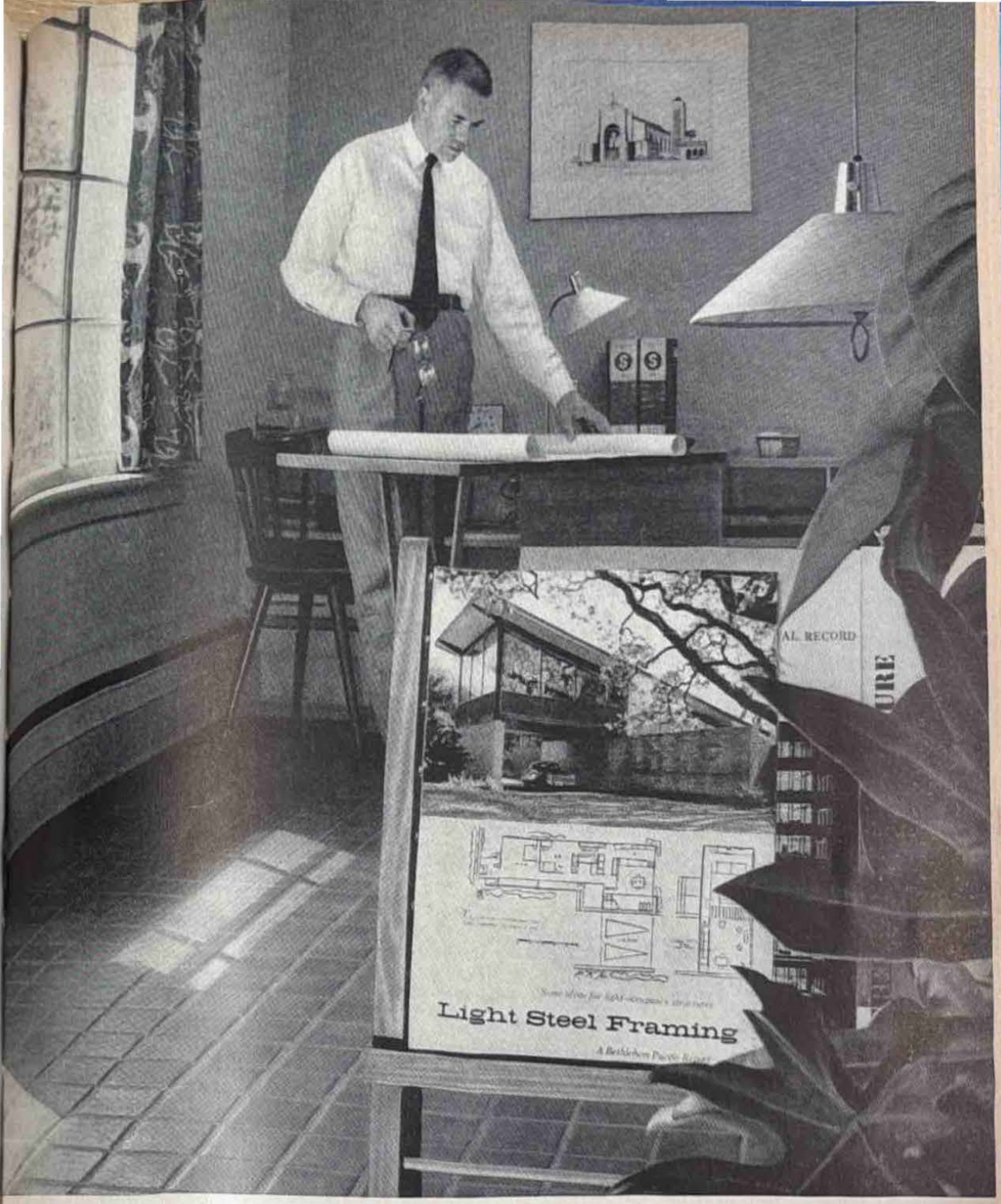
first story on a 30x40 ft. module. The framework consists of precast concrete columns and prestressed concrete beams and girders. The roof deck is of precast lightweight concrete channel slab panels; the exterior walls are prestressed lightweight concrete panels.

The precast and prestressed concrete design was chosen because 1) the material was fireproof; 2) the construction schedule could be met; 3) the deadload was acceptable for the pile foundations; 4) a large paved area adjacent to the building was available for the fabrication of the structural elements; 5) repetition of typical structural members made it feasible to economically mass-produce them of high-strength, prestressed and precast concrete.

The structure, in addition to the service load specified, had the additional requirement of resisting wind and seismic forces by flexure of the beams and columns. Thus the precast elements had to be joined in a manner to develop the equivalent of a monolithic structure, having continuity and rigid joints. In addition, the building was designed to accommodate expansion and contraction by separating the structure with a double row of columns near the building center lines each way and connected together by the expansion joints.

The exterior 5-in. thick walls were designed to carry their own weight from column to column, spanning between 30 and 40 ft. and vary up to 20 ft. high. The panels were of expanded shale concrete with a seven-day compressive strength of 4,000 psi. The 25- and 50-ft. columns were cast from 5,000-psi. concrete. The 60-ft. roof girders and 40-ft. roof purlins were also 5,000-psi. concrete. The second floor beams used 6,000-psi. concrete and consisted of a combination pre-tensioned and post-tensioned design.

Erection of the thousands of precast and prestressed concrete members was completed within a few days of the scheduled time. This project successfully demonstrated the concept of joining pieces of prefabricated concrete together and achieving the continuity of a monolithic structure.



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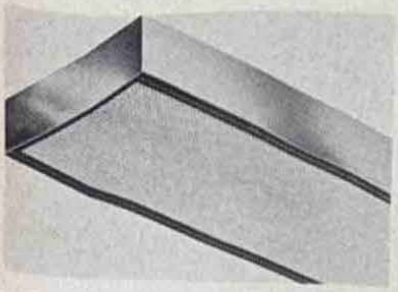


lighting fixtures

Sunlux lens panels have been added to the Visionaire line, including the surface mounted 6600 series shown here and the recessed 5600. Improved polystyrene panel is reported to resist discoloration at least three times longer in normal use than earlier materials. The 6600 is completely framed and incorporates a continuous hook-on hinge, allowing panel to open or to be removed without the use of tools; the 5600 has full-length piano hinged frame. Both types offer a touch type latch, inconspicuously flush with fixture trim.—Sunbeam Lighting Co.

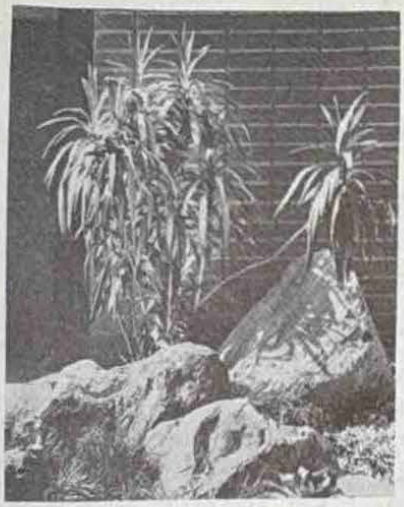
(Item No. 1)

air conditioners

Damper section of Flexazone central station air conditioners for independent/variable zone control has been redesigned with these improvements: 1) more positive, sensitive control; 2) reduction of outlet velocity air noise; 3) lower zone outlet velocity; 4) incorporation of all the features of opposed blade action; 5) elimination of crank arms for each rod. Each model is available in 32 different zone arrangements. Bolt-hole construction allows for rapid field assembly and all units have oversized access doors, thus eliminating removal of panels to bolt sections together.—Drayer-Hanson, Division of National-U. S. Radiator Corp. (Item No. 2)

garden rocks

Created by volcano flows in the Sierra Nevada Mountains thousands of years ago, rock formations being quarried



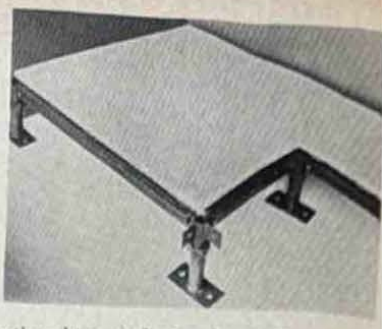
under the name of Featherock may be easily tooled for use as planting receptacles. They display a slight crystalline sheen, frequently have moss spore and lichen growth and range in color from light gray to charcoal. Three husky men with the aid of a rock drill can place on location even the largest boulders reaching 6 ft.—Featherock, Inc., Division of U. S. Pumice Supply Co. (Item No. 3)

reflective coating

Plasticool is a water-emulsion resin coating that reflects 92% of the sun's rays, resulting in drops of inside temperatures by as much as 40 deg. and reducing existing air conditioning loads by as much as 50%. Applied with standard equipment, it is a one-coat application and extremely weather resistant. Reflective efficiency of the four colors available — yellow, blue, buff and green—is close to that of the basic white.—Coating Laboratories, Inc. (Item No. 4)

elevated floors

Armorply flooring panels, with a sheet of rust-resistant metal laminated to each side, have been designed for use with data processing systems and



other heavy electronic equipment requiring underfloor power cables or connectors. Vinyl floor tile may be applied either at the factory or on the site. System on which the panels are laid features telescoping pedestral mounts to provide for leveling. Underflor space can also be used as a conditioned cooling air plenum for servicing machines. — Armorply Division, United States Plywood Corp.

(Item No. 5)

Norwegian furniture

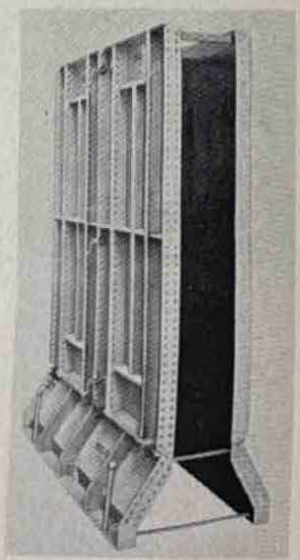
Displayed in showrooms in Los Angeles, San Francisco and Seattle for the first time is a complete line of Norwegian upholstered furniture called the Aalesund group. All pieces are offered in sculptured solid teak frames with linseed oil finish and most can also be had in walnut.—Hagen & Strandgaard, Inc.

(Item No. 6)

spread footing forms

Efco spread footing forms permit concrete footings and foundation walls to be poured at the same time, resulting in important savings in time and labor. Standard height of the all-steel forms is 10 in.; height of footings cast is 8 in. Forms are produced in lengths of 96, 48, 24 and 12 in. and they have hundreds of reuses. Spread corner forms for inside and outside are also available.—Economy Forms Corp.

(Item No. 7)



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LITERATURE

Readers are requested to write directly to manufacturers for the following literature.

Lighting Dynamics Catalog: easy-to-use, loose-leaf reference piece, full of new lighting ideas; 168 pp.—Lighting Dynamics, 802 W. Whittier Blvd., Whittier, Calif.

Otis Trav-O-Lator: explains how horizontal "contour" transportation frees architects and engineers to create new design solutions for airports, shopping centers and other communities of buildings; 10 pp.—Otis Elevator Co., 260 11th Ave., New York 1, N.Y.

Asbestolux: describes cross section of uses for factories, homes, offices, schools; has illustrations of existing installations; 12 pp.—North American Asbestos Corp., 3210 Board of Trade Building, Chicago 4, Ill.

Ruud Specification of Commercial Water Heaters: data on application, construction specifications, controls, hot water deliveries, space requirements for 17 models; 8 pp.—Ruud Manufacturing Co., Kalamazoo, Mich.

Stacks and Breechings: describes monolithic linings, utilizing Plicast castable refractories; covers structural and installation advantages of one-piece construction: 8 pp.—Plibrico Co., 1800 Kingsbury St., Chicago 14, Ill.

Wrought Iron Pipe for Modern School Building: discusses initial cost vs. economy, piping for permanence, where wrought iron is used in school construction; has two-page table listing 140 schools, their architects and engineers, together with typical applications ranging from air conditioning to underground piping; 8 pp.—A. M. Byers Co., Box 1076, Pittsburgh 30, Pa.

First Completely Recessed Thermostatic Shower Mixing Valve: describes thermostatic valve element that makes scalding virtually impossible; gives technical data and piping diagrams; 4 pp.—Lawler Automatic Controls, Inc., Mount Vernon, N.Y.

Fiberglas Insulations for Industrial and Commercial Metal Buildings (AIA 37-A): discusses such factors as heat losses, condensation and accessory materials; has tables, sketches, graphs; 12 pp.—Owens-Corning Fiberglas Corp., Toledo 1, Ohio.

Lupton Aluminum Curtain Walls: gives general and specific design data for two main types, H and G; has scale drawings of mullion sections, sills, framing members, typical elevations showing patterns and variety of designs; 16 pp.—Michael Flynn Manufacturing Co., 700 E. Godfrey St., Philadelphia 24, Pa.

School Construction with Rilco Laminated Wood: shows application of glued-laminated wood arches, beams and trusses to construction of economical schools; cites examples and has schematic floor plans; 8 pp.—Rilco Laminated Products, Inc., 236 Tacoma Building, Tacoma, Wash.

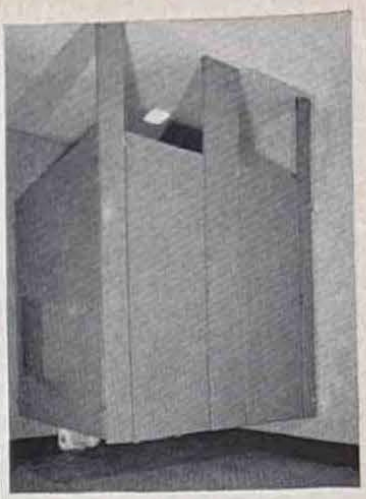
SanforDize for Construction Aluminum Surfaces: a technical description for architects and consulting engineers of the Sanford process which changes surface characteristics of aluminum; 2 pp.—Sanford Process Co., 6920 S. Central Ave., Los Angeles, Calif.

SprayKing Product Finishing Folio: intended for file reference by architects, contractors and their clients who are concerned with planning or building industrial finishing systems; contains article reprints, case history reports, full catalog information.—SprayKing, Inc., 750 Castelar St., Los Angeles 12, Calif.

New Shapes in Plastics: pictures products made by vacuum, vacuum snapback, drape and stretch forming; 4 pp.—Delta Products, 1400 Henderson, Fort Worth 1, Texas.

Ceco Electro-Channel Steel Joists (AIA 13-G): introductory manual shows in page-by-page series of photos and diagrams how underfloor electrification can be achieved at very low cost using E/C joists; 25 pp.—Ceco Steel Products Corp., 5601 W. 26th St., Chicago 50, Ill.

Bayley Curtain Wall Systems: shows how projected type of window can be assembled either directly or in a subframe, much like an erector set; 16 pp.—The William Bayley Co., Springfield, Ohio.



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TECHNICAL PUBLICATIONS

Composite Construction in Steel and Concrete for Bridges and Buildings. By Ivan M. Viest, R. S. Fountain and R. C. Singleton. McGraw-Hill Book Co., 327 W. 41st St., New York 36, N.Y., 1958. 192 pp. $7.50.

Here is an engineering manual on the design of steel beams and concrete slabs for composite construction, showing the advantages of the method and fully covering design procedures and practical applications. The well-rounded treatment gives the basis of composite construction and its advantages, develops design equations and procedures, describes methods of connecting slabs to beams and includes illustrative examples of design procedure and design charts and tables.

Metal Grating Handbook (AIA 14-A-1). Metal Grating Institute, Inc., 1 Gateway Center, Pittsburgh 22, Pa., 1958. 28 pp. $1.

Presents test data, standard design procedures, specifications and code of standard practices in general use by majority of metal grating producers.

Prestressed Concrete Design Handbook for Double Tee Roof Members (Vol. 9). Leap Concrete, Inc., P.O. Box 1053, Lakeland, Fla., 1958. $2.

Contains information on 116 different combinations which will enable an architect or engineer to specify exactly which double tee to use under any given condition.

How to Plan and Build A Better Fireplace. The Majestic Co., Inc., Huntington, Ind. 1958. 72 pp. $1.

Contains data on planning, materials and erection of fireplaces and barbecues directed principally to home owners, but architects and builders will find some helpful tips too. More than 200 illustrations include charts and diagrams covering sizes of openings, placement of parts, etc.

Engineering Consultants. American Institute of Consulting Engineers, 33 W. 39th St., New York 18, N.Y., 1958. $2.50 ($1.50 paper-backed).

Contains list of qualified engineers and their firms, with some biographical data; also classified index for convenience in locating engineers for particular types of problems.

Adhesives and Sealants in Building. Building Research Institute, 2101 Constitution Ave., Washington 25, D.C., 1958. 160 pp. $5.

Contains 22 reports delivered at a recent BRI conference in Washington, D.C. Among the topics: sealing joints in the building exterior (as applied to both traditional materials and metal curtain walls); adhesives for the building interior; adhesives for structural materials and components; the future of adhesives and sealants in building.

Swimming Pool Data and Reference Annual. Compiled by Swimming Pool Age. Hoffman-Harris, Inc., 425 Fourth Ave., New York 16, N.Y., 1958. 450 pp. $5.

Provides source material on every aspect of planning, financing, construction and operation of residential, semipublic and public pools; includes series of photographs and technical details of winning pools in 1957 design competition.

Lighting Handbook. Westinghouse Electric Corp., Bloomfield, N.J., 1958. 250 pp. $3.

Revised, pocket-sized, wire-bound edition offers comprehensive coverage of general field of modern lighting practices, including data on distribution and light measurements, coefficients of utilization and maintenance factors; has footcandle tables.

Douglas Fir Use Book. West Coast Lumbermen's Association, Portland 5, Ore., 1958. 300 pp. $5.

A reference handbook on timber design, compiling structural data and design tables, intended primarily for architects, engineers and students. The 8½x11-in. book is bound in a cloth cover and stitched so that it will stay flat when opened.

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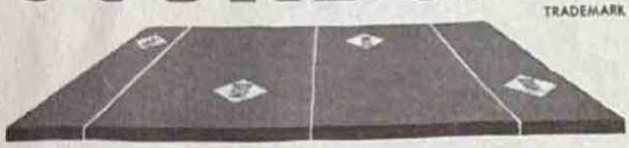

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T-SQUARE TALK

new partners

Ron R. Campbell and Orville Dawson have become associated in the firm of Campbell & Dawson & Associates, architects-designers, at 11728 Aurora Ave., Seattle.

Joseph H. Dimke and Palmer Putnam have formed an architectural partnership in Lewiston, Idaho.

firm changes, additions

Among five new partners in the architectural-engineering firm of John Graham & Co. are three Seattleites: Manson O. Bennett (senior partner) and Nathan Wilkinson, architects, and Roderick Kirkwood, professional engineer. Seattle associates include James E. Jackson, Alan Gerard, Alfred H. Fast, Alvin B. Harrison, Joseph F. Moodie, Anthony P. Burzenski, Howard Leuschen, Gerald R. Cysewski, John G. Arges, Gilbert E. Tucker and Herbert W. Lunn.

Wilsey & Ham, engineers-planners, of Millbrae, Calif., have embarked on a major expansion program, including the appointment of four division managers: Gordon Hillson, San Mateo; Jack Van Zandt, San Carlos; B. J. Whitlow, San Rafael; and William B. Wright, Millbrae. In another appointment Abraam Krushkhov of San Mateo has been named to head up the newly established planning division.

Daniel S. Defenbacher, former president of the California College of Arts and Crafts in Oakland, has joined the architectural firm of Victor Gruen Associates, in San Francisco, where he is in charge of research and development for northern California.

new addresses

James Keelor, architect, to Room 5, Shepard Square Building, 1240 High St., Auburn, Calif.

Maurice Sullam, architect, to 1826 Broadway, Seattle.

Carver L. Baker, architect, to 4266 Exultant Drive, Portugese Bend, Calif.

Gene G. Westberg, architect, to 711 S.W. Columbia St., Portland.

deaths

Howard W. Higbie, 79, who practiced architecture in San Jose for three decades, died October 6 following a long illness. In 1927 he and his wife, Jane Cambell Higbie, interior decorator, opened an architectural and decorating studio which they operated until 1945, when both retired.

Arch N. Torbitt, retired Seattle architect, died October 22 at the age of 75. A member of the Washington State Chapter, AIA, he formerly was associated with the firm of George Wellington Stoddard and also served as architect for the Alaska Public Works Administration in Juneau.

E. B. Rust, 72, San Gabriel, Calif., architect who designed the original Van de Kamp Bakery windmill and several apartment houses and hotels, died September 27.

appointments

Stuart B. Mockford, Oregon City architect, has been appointed to the Oregon State Hospital Survey and Construction Committee.

Several changes have been made in the personnel of the Oregon State Board of Architect Examiners. Wyman K. Bear of Portland is filling out the term of Walter Gordon, new dean of the School of Architecture and Allied Arts at the University of Oregon, which ends in 1962; Neil R. Kochendoerfer of Portland has been appointed for the term ending in 1963;

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and Mrs. Harriet K. Givens is the new administrative secretary, with offices in the Portland Trust Building.

elections

The Billings Architectural Association has elected F. Wayne Gustafson as president; C. D. Hall, vice president; and Ralph Kenyon, secretary-treasurer.

Raymond Brauner of Seattle is the new president of the Washington Society of Landscape Architects.

Mrs. Wallace P. Hagestad is the newly elected president of the Women's Architectural League of Oregon, which meets in Portland. Other officers: Mrs. Joseph H. Rudd, vice president; Mrs. DeWitt Robinson, treasurer; and Mrs. Ejner Nielsen, treasurer.

art notes

William M. McVey, sculptor and head of the Cleveland Institute of Art, will join the previously announced panel of judges to select the design of a bas-relief, mosaic or free-standing sculpture for the lobby of Logan Building now under construction in Seattle (PA&B for Oct. '58). Closing date for entries is November 30 and judging will take place in February.

Joseph L. Young of Los Angeles, who has pioneered contemporary uses of mosaics for architecture, has been elected to fellowship in the International Institute of Arts and Letters.

Architect John S. Bolles has established the Bolles Gallery at 729 Sansome St. in San Francisco's Jackson Square. D. Faralle, who recently returned to the Bay area from Boston where he headed the art department of Ursuline Academy, has been named administrative director and Dr. Grace L. McCann Morley, former director of the San Francisco Museum of Art, will act as consultant. "This gallery," comments the founder and newly elected president of the San Francisco Art Association, "in the heart of the city's business and design center, will offer business executives and corporations opportunities to see, understand, enjoy and buy works of art and to encourage their use in architecture."

new society

Alumni and friends of the University of Southern California have formed a society for "the furtherance of architectural education," according to president Whiting S. Thompson, Los Angeles architect. Inquiries concerning the orginzation, to be known as the Architectural Guild, can be addressed to him at 617 W. Seventh St.

MANUFACTURERS/SUPPLIERS

• **Gladding, McBean & Co.** has announced the retirement of James S. Cole of Seattle, sales manager in the Pacific Northwest, after 50 years of service. He began his career with the firm in 1908 at its Lincoln, Calif., plant, later went to San Francisco, Spokane and Portland, coming to Seattle in 1936 to assume the post he held at his retirement.

• **Leadlight Fixture Co.** of Oakland has named Roger J. Delander, formerly western regional manager for Sylvania Electric Products, Inc., as general sales manager.

• **Flintkote Co.** has elected James D. Moran as line assistant to Wilson Harvey, vice president and general manager of its Pioneer Division, with headquarters in Los Angeles.

• **Modernfold, Inc.,** and **Cole Commercial Co.** have been purchased by E. William Johnsen who has made these changes in the firms: the former has become Modernfold Northwest, Inc., handling Modernfold doors and Ador sliding glass doors; the latter has become Builders Specialties, Inc., handling Sanymetal toilet compartments, shower stalls and hospital cubicles, Bradley showers and other products. Johnsen heads both companies as president.

• **Pabco Industrial Insulations Division,** Fibreboard Paper Products Corp., Los Angeles has entered the industrial insulations contracting field throughout southern California.

• **West Coast Lumbermen's Association** has added Ray L. Todd, recent University of Wisconsin engineering graduate, to its technical staff in Portland.

• **Summerbell Roof Structures Division** of the Fluor Corp., Ltd., has moved into a new $300,000 plant at Santa Rosa, Calif., increasing its capacity to 30,000 bd. ft. of dimensioned lumber a day. King & Benioff & Associates were architects-engineers, with Fluor as contractor.

CORRECTION

Libbey-Owens-Ford Glass Co. should have been credited as the manufacturer of the heat-absorbing glass in the Outline Specifications for Westmoor High School, Daly City, Calif., which appeared in PA&B for October 1958.

NEW PRESIDENT of Pacific Tile & Porcelain Co. is Robert G. Bailey, who has been general manager of Paramount, Calif., firm since 1950. Richard F. Bailey has been named board chairman and T. Kent Davis, secretary-treasurer.

• **Chambers Built-Ins, Inc.,** has appointed Joe Marsalisi Jr. as district manager in California, working out of Woodland Hills.

• **Builders Brick Co.** of Seattle, largest face brick manufacturer in the Pacific Northwest, has a new $1.2 million plant under construction in the Newcastle area, east of Lake Washington. The firm also has been named dealer for Robco structural glazed tile products west of the Cascades and from Lewis and Gray's Harbor counties north to the Canadian border.

• **Touch-Plate Mfg. Corp.** of Paramount, Calif., has begun work on plant additions that will double production space.

• **W. J. Villarreal Co.** has appointed Jerry Weislow of Sepulveda as its representative in southern California to handle Dura-Vent double-wall, gas vent pipe and Peerless gas heating equipment.

Producers' Council elects California officer

Henry E. North, head of Arcadia Metal Products, Fullerton, Calif., was elected second vice president of Producers' Council at its annual meeting in Miami in September. New president is H. Dorn Stewart of the Barrett Division, Allied Chemical Corp., New York.

Other officers: Elmer A. Lundberg, Pittsburgh Plate Glass Co., Pittsburgh; first vice president; T. D. Wakefield, The Wakefield Co., Vermilion, Ohio, secretary; and Harold L. Cramer, Westinghouse Electric Corp., Pittsburgh, treasurer. Among the directors are Don A. Proudfoot of Simpson Timber Co., Seattle.

Speakers at the three-day meeting seemed to agree that the field of distribution offers greater potential for cost savings than do technological developments in manufacturing.

Management and planned obsolescence (Cont'd from p. 10)

intentionally produce for the junk pile. And once we've slammed it, let's pull the bolt.

Don't let anyone tell you that beauty is something you can add after the job is done. Or that beauty is something that changes in a year or two with an artificially created style. You build it in as you go; it stays as long as the product lasts; and it endures as an idea of beauty even after the object itself is no longer existent.

The buildings we remember as great are not memorable merely because they satisfied the sense of beauty of a particular people; they are honored because they were universal statements of aesthetics. Their beauty is timeless.

The men who built the cathedrals and the temples of the past knew this. The great men who conceived the ideas and the other men—the craftsmen who gave these ideas form in stone—were demonstrating more than their genius and their skills. They were performing an act of faith—and the depth of their belief was reflected in the reverent use of their materials.

Maybe you're wondering why all this talk of philosophies, of credos, of aesthetics comes from a man who has the day-to-day, nuts-and-bolts task of running a business, of producing. The fact is that aesthetics must be as important to American business as the materials we use to make our products. It is wedded to production; it cannot be divorced from it.

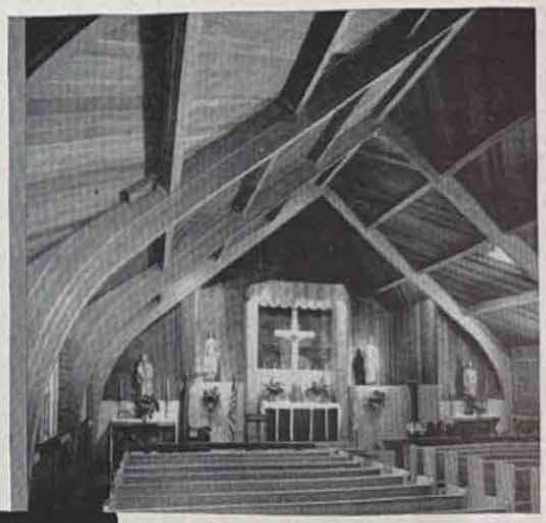
This brings us to the point of asking what we must do—designers and producers alike—to fulfill our role. Well, to begin with, we must be ready to think. We must retain our dedication to quality and to standards and to the kind of integrity to which your organization is already pledged. And we must be prepared to sell our ideas as vigorously as we have ever sold our products.

There are a lot of us who have customers who are susceptible to the blandishments of the apostles of planned obsolescence. Our job is to communicate with these people. We've got to show them where they left the right path of sensible judgment. We will often have to do it tactfully and diplomatically. We cannot afford to say "I told you so," or "serves you right." That isn't salesmanship—and salesmanship is perhaps the best tool we have to do our job in this competitive age.

• • •

I believe in change—useful, constructive change. I believe in improvements. But I do not think that change for its own sake is a good idea. Earlier I posed several questions. I asked whether the slums of tomorrow are on the drawing boards of today, whether our monuments as an industrial civilization will be rusting junk heaps. I am going to answer those questions with a resounding "No!" I have far too much faith in you, in my own fellow producers and in the good sense of the rest of the American business community to accept any such gloomy propositions. Every time I see a machine go to work to dig a new foundation, every time I see a new building rearing up against the sky, every time I see a man at a drawing board, I know how inaccurate the forecasts can be.

For man intends to be around awhile, else he would not be building. As long as he believes, as long as he builds on that belief, there is reason to hope for a better and brighter tomorrow. We here today are privileged to be part of that demonstration of faith. We must be ready to measure up to that privilege and the responsibility.



St. Daniel the Prophet Catholic church, Ouray, Colorado; Contractor: Carl E. Poland and Son, Grand Junction; Rilco Laminated Wood Arches.

"our parishioners are very pleased"

"Our parishioners are very pleased with their new church and feel very happy to have had a part in its erection," writes Reverend Joseph H. Halloran, Saint Daniel's church. "Our register book shows over 4000 visitors; many of them remark about the arches, asking where and how they were made.

"The whole Rilco framework, arches and purlins, was erected in one week. Everyone is happy with the result."

Rilco laminated wood arches, beams and purlins have won approval from congregations everywhere, for these members have the majesty, reverence and symbolism that only wood possesses, with rich warmth that belies their surprisingly modest cost. The beauty and economy lasts for years, for Rilco members resist cracking, warping, require virtually no maintenance.

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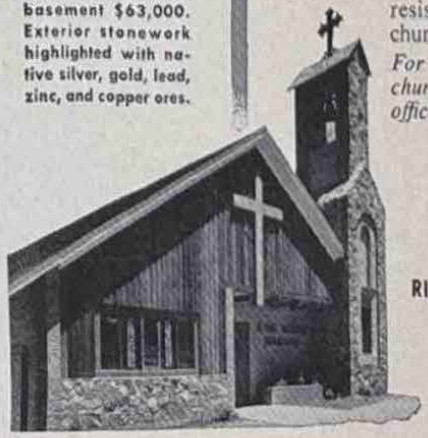
For more information about Rilco churches contact your nearest Rilco office. No obligation, of course.

Total cost with full basement $63,000. Exterior stonework highlighted with native silver, gold, lead, zinc, and copper ores.



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Tacoma, Washington

At Monterey: creativity and continuity (Cont'd from p. 8)

ized," he continued. "It must be the product of an individual whether in large or small offices. If you have something to say, say it in your own way." Lundy admitted, however, that he has "learned to bend a little but not in a weak way."

He cautioned his colleagues not to take refuge behind the guise of professional snobbery. "Giants can teach but they can also crush and stifle unconsciously. And they can be wrong sometimes," he concluded, citing a Le Corbusier building for the Salvation Army he visited which has "nothing to do with human scale."

Walter Netsch, formerly chief of design in the San Francisco office of Skidmore, Owings & Merrill and named director of design for the Air Force Academy project in 1954, analyzed the basic program in general and the controversial chapel in particular, which he referred to as "an intellectual and poetic exercise, an attempt to solve religious space in our time."

The program called for three separate churches: Protestant, seating 900; Catholic, 500; Jewish, 100. The objective, Netsch explained, was to impart a distinct character to each church within an envelope which expressed "the strength and lightness inherent in today's technology." The envelope will take the form of a series of steel aluminum tetrahedrons, with light reflected through continuous colored glass panels.

Seattleite Paul Thiry discussed the State Library in Olympia, now under construction. Sited between buildings of classic design—the site selection itself was a disputed issue—, on axis with the domed Capitol, the chief problem was to make the new structure harmonize with its neighbors without compromise of style. "Architecture in our daily life is not for exhibition purposes," he said. "We must think in terms of the total landscape and the total environment."

In introducing his design concept, Thiry pointed out that "the schools tend to pooh-pooh everything in the past, although there is need for continuity." Long active in preservation activities, the architect lamented the fact that we are losing our historic sequence, declaring: "The world will be richer when it leaves the good things and destroys the bad." The problem is how to cope with the bulldozers and superhighways: "the apathetic and irresistible forces of destruction which, strangely enough, move through construction."

Thiry expressed displeasure with much of today's design efforts. "Before modern architecture has a chance to develop, we're in the baroque. It appears that our contemporaries are trying to get it over with." And about planning: "Some of my colleagues say, 'The plan is not the thing; the module is the trick.' But I still believe in planning."

Architect Gardner Dailey of San Francisco, who introduced the three speakers, declared that "there has been no creativeness in architecture, as expressed in materials, since the Gothic."

Probing the creative mind

In setting the stage for the entire conference, Dr. Donald McKinnon, director of the University of California's Institute of Personality Assessment and Research, defined two types of creativity in which 1) the product is the expression of the creator himself, such as the novelist and painter; and 2) the product is unrelated to the creator who acts on some aspect of his environment, such as the research scientist and engineer.

The psychologist also mentioned a third type or middle ground in which the creative product encompasses the other two, placing architects in that category. (They will represent this

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group in an extensive study of creativeness now underway at UC.)

For Dr. McKinnon a product to be really creative must meet at least three requirements: 1) it must be original; 2) it must be appropriate; 3) it must sustain over a long period of time. The word "creativity" has been cheapened in our society, he added, but that it will assume respectability in later years.

Three other California non-architects contributed their views on creativity. Composer Robert Erickson, author of "The Structure of Music," said the creative person is "playful, fanciful and highly individualistic," living out near what he likes to call "the growing edge." Main threat against the creative is the rational point of view that says, "Two and two must make four." On the other hand, the chief aid to creativity is mastery of one's craft. "When you know your craft, you can concentrate on the creative," he explained.

Industrial designer Jo Sinel declared that the really creative art is far beyond the comprehension of the masses and criticized the "pastry cook" approach to creativity by which others' ideas are "spurted from a tube and passed off as original."

Designer Charles Eames, whose work ranges from furniture to buildings, startled his audience a bit when he referred to architects as "professional amateurs." He later clarified his point when he explained that by "amateur" he meant one who does not accept every dogma that comes along.

Continued on p. 37

At Harrison: Kahn, Kramer and rain (Cont'd from p. 9)

that great thoughts and ideas are the products of the individual. "Group creativity may raise the mediocre but it subordinates the self."

Rader and aesthetics

Concerned with the most good for the most people, Rader pointed out that our social technology over the past 50 years has produced more and more bigness in organization on all fronts. This impersonalization has resulted in frustrating man's nature both in his 1) introverted activities (family, privacy, etc.) and 2) extroverted activities (business relations, public entertainment, etc.). Our superorganized society, which expresses itself architecturally through such media as the shopping center, does not enhance what the philosophy professor thinks of as the "meeting of man with man."

Rader, who spent the past year in Mexico writing a book, made reference to town planning, the market place and other elements there which give significance to day-to-day living and which are so sadly absent from the American scene. He was also critical of residential design being done in the United States, particularly the open plan which neutralizes the personal and allows little, if any, private space.

Pratt and a competition

As a member of the five-man jury (three architects, two planners), Pratt discussed the Toronto City Hall competition, which he described as "one of the greatest ever held." He outlined the two stages in which 750 entries, including several from the Northwest, were narrowed down to eight, photographs of which served as the basis for his remarks. He noted the two broad types of solutions—the high-rise approach and the quite modest, low approach.

While Pratt thought the winning design would shake conservative Toronto, he found he was mistaken when a daily newspaper carried a banner headline stating, "It's a Beauty!" But the architect admitted that he heard the ultimate in judgment from a cab driver who declared, "I got her, she's sexy and she's mine."

In summarizing the conference, AIBC executive director Warnett Kennedy said that the program had focused attention on the truism that man must think what he feels and feel what he thinks, but added that "the architect's limited range of feeling divorces him from the layman."

Regional vs. national

Directing some sharp criticism at the Octagon, Robert L. Durham of Seattle wound up the program at the Sunday breakfast with an evaluation of regional conferences, citing the importance of the setting, impact of speakers, unity of spirit, planning and continuity of theme as factors determining the success of any given meeting.

"Regional activities of architects have an importance in the AIA we cannot visualize today," Durham declared. This sentiment was voiced earlier in the busines sessions when delegates unanimously approved the following resolution which he introduced:

WHEREAS: Programs for recent national conventions of the AIA have been of decreasing interest; WHEREAS, The yearly meeting should represent a synthesis of professional concerns and ideas; WHEREAS, The regional conferences have proven of increasing value; and WHEREAS, The host chapter presently has no real part in planning activ-

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JUROR PRATT discusses scheme submitted in Toronto City Hall competition with architect Wendell Lovett of Seattle, one of Northwest entrants.

ARCHITECTURAL TOUR of Vancouver following conference includes visit to Architectural Centre which provides comprehensive reference library of technical data through its catalog files and samples of materials. Operation is unique in that it is sponsored by architects themselves incorporated as legal entity separate from Architectural Institute of British Columbia.

ity; therefore, be it RESOLVED:

That the Board of Directors of the AIA be requested to alter the planning procedure to give greater autonomy to the host chapter in formulating the overall theme and professional program.

Carrying with some dissent was this motion:

WHEREAS, It is deemed essential that increased emphasis be given to chapter and regional activities; WHEREAS, It is becoming mandatory that local chapter and regional organizations be given more autonomy in the direction of all AIA matters; WHEREAS, There is serious complaint as to the ineffectiveness of present national AIA programs and staff; and WHEREAS, There is such increasing member dissatisfaction of the national organization as to seriously affect chapter member attitudes and support, thus discouraging an expanding and vital membership; therefore, be it RESOLVED:

1. That national AIA dues be immediately and substantially reduced.
2. That national programs and staff activities be reduced to the bare essentials such as necessary for clerical requirements in coordinating regional and chapter activities.
3. That this conference inform each member chapter that the intent of this resolution is that chapter dues be increased by a corresponding amount, and the Regional Council be directed to consider means by which an effective increase in regional programs, staff and activities may be made.

The conference also gave the first regional endorsement to a meeting of chapter presidents (proposed Congress of Presidents) previous to the national convention; and recommended that the national AIA Honor Awards program be reviewed, with the intent that screening be done on a regional level, each region submitting its entry to a 12- or 13-man jury.

Another resolution, presented by Durham and unanimously carried, requested that the Institute's Board of Directors assist in carrying to a higher court the case in which judgment was made against the architect when a product failed.

In other official action, the delegates named Earl P. Newberry of Portland to a three-year term on the judiciary committee and Philip E. Keene of Spokane as a one-year alternate.

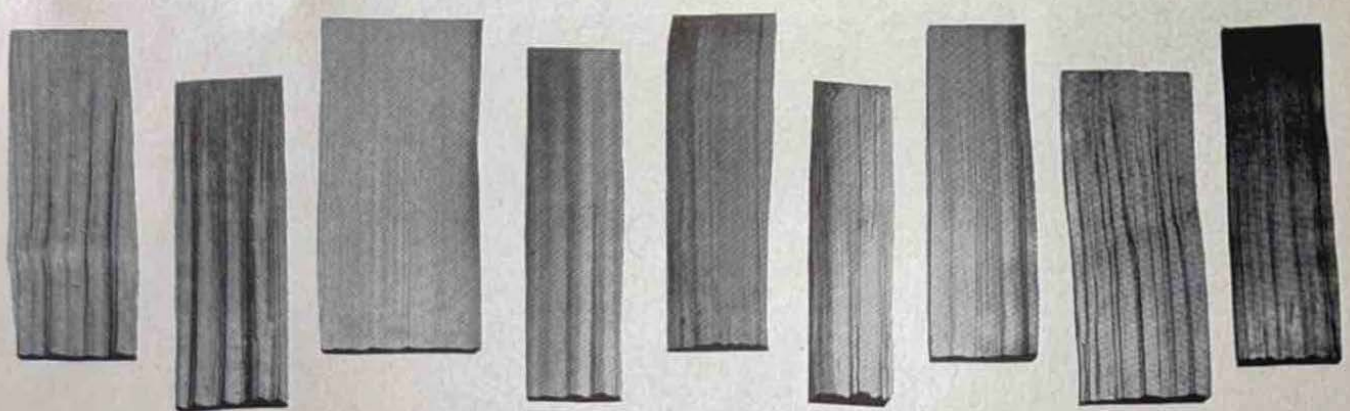
Spokane in '59

The 1959 conference, set for October 8-11, will be held in Spokane's Davenport Hotel, with Keith Boyington as chairman.

Representing this year's host chapter, Washington State, was a Seattle committee composed of A. O. Bumgardner, chairman, David R. Anderson, Fred Bassetti, L. Jane Hastings, Ibsen A. Nelsen, Victor Steinbreuck, Gordon B. Varey and Lawrence G. Waldron. Canadian committee members were Rand Iredale and Arthur Read.

like fingerprints . . .

NO TWO SHAKES ARE ALIKE



In making handsplit shakes—as with any truly hand-crafted material—uniform appearance is *not* desirable, nor is it even possible! Uniform quality, however, is another matter. *Quality can be controlled.* When you see the Certi-Split label beneath the bandstick of handsplit cedar shake bundles, you know that quality *has been* controlled. Specify and insist on Certi-Split. It is your assurance of *top grade, full count* and *uniform quality.*

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Construction News Bulletin

(A weekly summary of Pacific Construction Daily)

Vol. 64—No. 24 (PA&B) News Section of Pacific Architect and Builder November 15, 1958

Dorothy McCormick ..... **News Editor** **Win Romtvedt** ..... **Portland Correspondent**
Rita Boshell, Dorene Davis, Linda Brady, News Staff

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BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

● Bids Called
★ Contract Awards
▲ Low Bids—Bids Received
■ Planholders—Prospective Bidders

OREGON

NEWSPAPER PLANT— Albany, Ore.

Additional description on a one-story, no basement, 12,393 sq. ft. concrete building to be constructed at 6th Ave. and Ellsworth in Albany, for the Albany Democrat-Herald, daily newspaper. Architect: James L. Payne, 725 S. Commercial, Salem. Mechanical and electrical engineers: Cornell, Howland, Hayes & Merryfield, 1600 Western Ave., Corvallis. Plans will be completed in December.

The building will be 90'6"x143'10"; column footings and concrete tilt-up wall panels; concrete slab floors; glued laminated beams; r & g roof; frame partitions; aluminum windows; rigid insulation over roof decking; painted concrete exterior finish; painted plaster and vinyl fabric interior finish; aluminum exterior trim; wood interior trim; plaster partitions, gypsum lath; end grain wood-block floors in press room and composing rooms, ceramic tile in toilet rooms, vinyl-asbestos in office areas; acoustical ceilings; wood doors; wood cabinets; fluorescent lighting; forced air oil heat; air conditioning. RM 11-8. Previous report 8-27

★RESIDENCE— Ashland, Ore.

Award to Thomas J. Parker, 450 Siskiyou, Ashland, Ore., $15,208, by Bureau of Reclamation, for construction of operator's two-bedroom residence, water system, sewage system, garage and sidewalks; 100 c.y. furnishing, placing driveway and parking apron gravel, including preparation of a smooth subgrade; 3,100 c.y. grading, including drainage ditches, near the Green Springs Power Plants, about 11 mi. in a southeasterly direction from Ashland, Jackson County, Talent Division, Rogue River Basin Project, Ore.; Spec. No. 100C-346.

Bids were opened October 2 by the project engineer for Bureau of Reclamation, at Camp White. Engineer's estimate $18,835.

Work also includes furnishing and installing one 12"x30 and one 6"x10' corrugated metal pipe culvert, complete with necessary excavation, backfill, and compaction of backfill. DM 11-11. Previous report 9-16

★HOSPITAL ADDITION— Burns, Ore.

Award to Bennett & Hickey, Burns, $10,-900, by Harney County Commissioners, Courthouse, Burns, for construction of a wood frame addition, and alterations to Harney County Hospital in Burns. Plans by Roald, Schmeer & Harrington, architects, 1104 Portland Trust Bldg., Portland. Four bids were received October 31.

WB 11-11. Previous report 10-14

HOSPITAL— Central Point, Ore.

Plans have been announced by Medford Osteopathic Hospital, Dr. Paul T. Rutter, owner, 215 E. Jackson Blvd., Medford, for construction in 1959 of a 25-bed hospital at Central Point. A six-acre tract has been purchased. Plans allow for future expansion to 50 beds. DC 11-12

HEATING PLANT ADDITION— Corvallis, Ore.

(Estimated cost $803,500)

Preliminary plans are underway by W. Bruce Morrison, consulting engineer, 918 Cascade Bldg., Portland, for an addition to the central heating plant at Oregon State College, Corvallis. The addition has a high priority on the list of construction projects to be presented to the 1959 Oregon Legislature by the Oregon State Board of Higher Erucation, Dr. John Richards, chancellor, Eugene. Funds have been advanced by the U.S. Housing & Home Finance Agency for planning of the project. WB 11-12

▲ELECTRICAL SERVICE— Corvallis, Ore.

Following is the complete list of bids received November 7 by Oregon State Board of Higher Education, in Administration Council Room, 106 Commerce Bldg., Oregon State College, Corvallis, for installation of electrical work, Phase 1—Primary Distribution System at the college. Plans by W. Bruce Morrison, engineer, 918 Cascade Bldg., Portland. BIDS: L. H. Morris Electric, 944 W. 5th Ave., Eugene, $103,566; Electric Corp., Box 266, Salem, $104,470; Lebanon Electric, Lebanon, $110,921; Steeck Electric, 628 S. Riverside Ave., Medford, $113,300; Ace Electric, 5104 N.E. Oregon, Portland, $113,995; Jaggar-Sroufe Co., 939 S.W. 10th Ave., Portland, $114,800; Marion Electric, 2715 Portland Road, Salem, $115,900; Mayer & Ross Electric, 223 S. 4th, Corvallis, $116,748; Clark Electric, 233 S. 7th, Eugene, $117,987; The Tide Co., 829 N. Russell, Portaind, $126,000; Lord Electric, 1034 S.E. Water, Portland, $132,950. The engineer's estimate is approximately $118,000, and award is expected to be made to low bidder.

WB 11-12. Previous report 11-11

★PARKING GARAGE— Eugene, Ore.

Award to Gale M. Roberts, 338 W. 11th, Eugene, $199,400, by Lane County Commissioners, Courthouse, Eugene, for construction of a parking facility in downtown Eugene. Plans by Wilmsen & Endicott, architects, 863 13th Ave. E., Eugene. Construction will not be started until late in the winter, as the Lane County courthouse now under construction, must be finished, offices located in other buildings moved, and those buildings razed to clear the parking structure site. DM 11-12

★RESIDENCE— Green Springs Power Plant, Ore.

Award to Thomas J. Parker, 450 Siskiyou Blvd., Ashland, $15,208, by Bureau of Reclamation, Medford, for construction of one operator's residence and garage at Green Springs Power Station in Talent Division of the Rogue River Basin Project; Spec. No. 100C-346. Site of the work is about 11 mi. southwest of Ashland in Jackson County.

RM 11-8. Previous report 10-21

●CABINET WORK, SCHOOL EQUIPMENT Gresham, Ore.

Bids will be opened 3 p.m., P.S.T., December 9, by Gresham Union High School District No. U2-30Jt, Multnomah County, Nelda B. Radak, clerk, Superintendent's Office, Gresham, for construction of classroom cabinet work, kitchen equipment and classroom equipment, for the new high school between S.E. 174th Ave. and 182nd Ave., north of Powell Blvd. Plans with Burns, Bear, McNeil & Schneider, architects, 2940 S.E. Belmont St., Portland. Bid bond or certified check 10%.

Separate bids for: (1) Classroom cabinet work, including teachers and student storage cabinets for entire school; (2) Kitchen equipment, including all sinks, work tables, dishwashing equipment, mechanical and electrical equipment, etc., necessary for complete installation; (3) Classroom equipment, including chemistry tables, instructor's desks, and a fume hood. WB 11-11

FIRE STATION— Gresham, Ore.

Rural Fire Protection District No. 9, Multnomah County, Twelve-Mile Corner, Gresham, plans to construct a fire station near S.E. 174th Ave. and Division St. Funds will be obtained through an increase in the district's legal tax base, from $65,000 to $198,685, approved by voters in the November 4 election. The money will also be needed to man the new station, and to man and equip the Orient School area substation. WB 11-12

●CHURCH (Calvary Lutheran)— Hillsboro, Ore.

Bids will be opened 7:30 p.m., November 28, by Calvary Lutheran Church, Faurest L. Anderson, chairman of building committee, Grange Hall, 245 S. 3rd Ave., Hillsboro, for construction of wood frame church (initial unit) on N.W. Jackson School Road. Plans with Wicks & Brown, architects, Astoria, or from Anderson Bros. Jewelers, E. Main St., Hillsboro. $25 deposit. Certified check or bid bond 5%.

Building will have temporary nave seating about 200 plus choir balcony (nave for later use as activities room); 11 classrooms, sacristy, chancel, office, nursery and kitchenette; furnace room below grade. Glued laminated arches and beams supporting 4" cedar deck; built-up and asphalt shingle roofing; redwood and some brick siding; aluminum sash; cathedral glass; plastic skyridge on top of steeply pitched roof to provide natural lighting; concrete slab floor (covering by owner); plaster walls, except Philippine mahogany in chancel; mostly exposed deck ceilings; fluorescent lighting; two gas-fired furnaces supplying hot air through baseboard grills; septic tank.

WB 11-8

APARTMENTS— Klamath Falls, Ore.

Bids will be called early in 1959 by the owners, Arthur Rickbeil & Associates, 700 Main St., Klamath Falls, for construction of 93 apartment units, 25 per cent to be two-story structures, on a four-acre tract, 200' east of Washburn Way, bounded by Shasta Way and Pershing Way in suburban Klamath Falls. Total ground area for the cottage-type apartments is 48,058 sq. ft. In addition, there will be an office building for the apartment manager and a 20'x40' tiled outdoor swimming pool. Plans will be completed in about 80 days by the architects, Morrison & Howard, Williams Bldg., Klam-

ath Falls. Mechanical and electrical engineers to be named.

The project includes 43 two-bedroom units, 25'4"x24'; 32 one-bedroom units, 16'x25'4"; 18 single studio bachelor quarters, 12'x25'4". Plans permit future construction of carports. Pumice block construction; concrete slab floors vinyl floor covering, some carpeting; vaulted plywood roofs.

The contract for clearing, leveling and filling has been let to Ray Kizer Construction Co., Portland. ZZ 10-30

★RESIDENCES, WAREHOUSE— Lane County, Ore.

Award to A. E. Stafford, Hayden Bridge Way, Springfield, $102,461, by U.S. Forest Service, 729 N.E. Oregon St., Portland, for construction of three residences and a warehouse at Oakridge Ranger Station, and two residences at Lowell Ranger Station, Willamette National Forest, Lane County, Ore.; Bid No. R6-59-112.

WB 11-7. Previous report 11-5

CONGREGATIONAL CHURCH— Milwaukie, Ore.

A fund drive for $80,000 is underway by Ardenwald Congregational Church, Rev. Ivan Cleveland, pastor, S.E. 32nd and Van Water, Milwaukie, for construction of a new church at S.E. Logus and 46th, Milwaukie. The church name will be changed to First Congregational Church of Milwaukie.

Plans by Warren Weber, architect, 610 Fenton Bldg., Portland, call for a one-story sanctuary, Sunday school and parking area. Construction of the first unit is scheduled to start next spring. WB 11-4

COLLEGE EXPANSION— Monmouth, Ore.

Plans have been announced for a 10-year expansion program at Oregon College of Education in Monmouth. President Roy E. Lieuallen, Administration Bldg., campus, Monmouth, says that the program calls for a 75-acre campus, five new buildings and additions to two others.

It is hoped that construction can be started next year on a $375,000 heating plant and warehouse and a $975,000 student center and dining commons.

For the 1961-63 biennium, the program lists construction of a women's dormitory with 150 person capacity and additions to the men's physical education building and the library.

The 1963-65 binnium construction includes a 100-student men's dormitory.

During the 1965-67 and the 1967-69 bienniums, the first unit of a major classroom building is planned, including some 20,000 sq. ft. of floor space to be added during each of the above bienniums.

Plans also call for inclusion of three tracts of land involving 13 acres within the campus boundaries. DC 11-11

HEATING PLANT— Monmouth, Ore.
(Estimated cost $286,860)

Preliminary plans are underway by W. Bruce Morrison, consulting engineer, 918 Cascade Bldg., Portland, for a new heating plant and physical plant service building at Oregno College of Education, Monmouth. The building has second priority on the list of construction projects to be presented to the 1959 Oregon Legislature by the Oregon State Board of Higher Education, Dr. John Richards, chancellor, Eugene. Planning funds have been advanced by the U.S. Housing & Home Finance Agency.

WB 11-12. Previous report 3-22 (College Construction)

●GRADE SCHOOL— Oregon City, Ore.

Bids will be opened 8 p.m., December 3, by School District No. 62, Clackamas County, L. A. King, clerk, Superintendent's Office, 12th and Harrison streets, Oregon City, for construction of the 24,000 sq. ft., reinforced concrete South Oregon City School, near the junction of South End Road and Warner-Parrott Creek Road. Plans with Stuart B. Mockford, architect, 723 Washington St., Oregon City. $50 deposit. Certified check or bid bond 5%.

School will have eight classrooms (six may be added later), kindergarten, library, multi-purpose room, kitchen, offices and storage. Concrete slab floor on grade; tilt-up concrete walls; wood frame roof and interior partitions; built-up roofing; aluminum sash; textured concrete exterior finish; plaster walls; acoustical or exposed deck ceilings; asphalt tile flooring, except ceramic tile in toilets, quarry tile and vinyl asbestos in kitchen; oil-fired, hot water heating system with unit ventilators; fluorescent lighting; blacktopped parking and play areas. WB 11-11

■STORAGE, SHOP BUILDING— Portland, Ore.

Planholders announced on construction of armament supply and storage building and motor service shop at the Air National Guard facilities at Portland Air Force Base, Ore.; ENG-45-108-59-26. Bids will be opened 2 p.m., P.S.T., November 25, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, Wash. Plans obtainable from Seattle office. Bid bond 20%. Completion time 330 calendar days.

Planholders: C. M. Corkum Co., Box 789, Portland; Earley Construction Co., 321 Middle Waterway, Tacoma, Wash.; Charles S. Camplan, 2035 S.W. 58th Ave., Portland; George A. Moore & Associates, Inc., (successors to Malarkey & Moore) 923 S.W. 17th Ave., Portland; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; Teeples & Thatcher, 8850 S.E. Otty Road, Portland; Teller Construction Co., Box 7805, Portland; Thompson & Georgeson, Inc., Box 2108, Portland; The Tide-Bay Co., 1512 Center St., Tacoma; J. G. Watts Construction Co., Route 1, Box 300, Salem; Lorentz Bruun Co., 3636 S.E. 20th, Portland; W. L. Reid Co., Box W. 20, West Slope, Portland; Rich & Sons, Route 1, Hillsboro; Wilson & Dean Construction Co., 1016 N.E. 61st Ave., Portland.

Atlas Equipment Co., 620 Maynard; Automatic Sprinkler Corp., 610 W. Idaho; Century Metal Works, 7126 W. Marginal Way; Charles Industrial Sales Co., 5201 1st S.; Federal Pacific Electric Co., 1415 Elliott Ave. W.; James T. Hansen Co., 333 Taylor Ave. W.; Isaacson Iron Works, 8531 E. Avenue Bldg.; Jan-Pacific Co., 1718 Broadway Marginal Way; Jan-Pacific Co., 1718 Broadway Marginal Way; Nelson-Huser Co., 1404 8th S.; Northern Enterprises, Inc., 12556 Bothell Way; Reliance Steel Products Co., Hoge Bldg.; Stoner-Forsyth Co., 1107 E. Pike St.; J. T. Thorpe Northwest, Inc., 3155 Elliott Ave.; Vermiculite Contractors, Inc., 2107 N. 4th; Williams Tilt-up Compound, Inc., 5407 26th N.E. All of Seattle.

Cyclone Fence Dept., 400 N.E. 11th Ave.; Mory & Bohm Electric Co., 516 N.W. 14th; Empire Building Material Co., 9255 N.E. Halsey; Fought & Co., Inc., Box 4297; Graham Electric Co., 311 N.W. Broadway; W. R. Grasle Co., 437 N.W. 16th Ave.; Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave.; Ace Electric Co., 5104 N.E. Oregon; American Bridge Division, United States Steel Corp., 309 S.W. 6th; Selwyn Bingham & Sons, Ore. Ltd., 437 N.E. 11th Ave.; Marion Butler Co., Swan Island; California Roofing Co., 109 S.E. Salmon St.; Cascade Electric Co., 2125 N. Vancouver Ave.; Lewis-Riffel, Inc., 5851 N. Lagoon Ave.; Henry Mason Co., 2206 N.W. Thurman St.; Mercer Steel Co., Inc., 2555 N.W. Nicolai; Montgomery Electric Co., 2375 N.W. Thurman; Pacific Pumping Co., 526 N.W. Broadway; Pittman Electric Co., 412 N.W. 5th; Mason Robinson, 2004 N.E. 137th; Rowland Plumbing and Heating, 929 N. Lombard; John Schulter, 411 Weatherly Bldg.; Soule' Steel Co., 4630 N.W. St. Helens Road; Structural Products, Inc., 1805 N.W. Thurman; Tice Electric Co., 2139 S.E. Belmont; Truscon Steel Division, Republic Steel Corp., 2139 N. Kerby Ave.; J. A. Tudor & Associates, Inc., 1004 S.E. Belmont; Urban Plumbing and Heating Co., 2904 S.W. 1st Ave.; West Coast Steel Works, 5609 N.E. 77th; Westinghouse Electric Corp., 309 S.W. 6th; Beebe Construction Co., 2134 N. Flint Ave.; A. B. Briggs, 3205 S.E. 13th; Copenhagen, Inc., 7923 N.E. Halsey; Graybar Electric Co., Inc., Box 4169. All of Portland.

Mountain States Construction Co., Box 648, Edgemont Br., Golden, Colo.; Ceco Steel Products Corp., 401 Tunnel Ave., San Francisco, Calif.; Contractors Foundries Corp., Suburban Station Bldg., Philadelphia, Pa.; Crane Hoist Engineering Corp., 5615 Salt Lake Ave., Bell, Calif.; Durant Insulated Pipe Co., Box 88, Palo Alto, Calif.; Electric Power Door Co., Inc., 2127 E. Lake St., Minneapolis, Minn.; Federal Joint Sealing Co., E. 3420 Sprague Ave., Spokane; Fire Detection and Burglar Alarm Co., N. 1317 Howard, Spokane; Gate City Steel, 4000 Warm Springs Ave., Boise, Idaho; General Steel Co., Box 487, Fort Worth, Tex.; Industridoor, Inc., 78 Baker St. N.W., Atlanta, Georgia; E. B. Kaiser, Box 47, Glenview, Ill.; Midway Electric Co., 1271 Columbia Blvd., St. Helens, Ore.; Olson Electric Co., 710 W. 8th, Vancouver, Wash.; Sprague, Inc., Box 458, Lynnwood, Wash.; John Bristow & Associates, 449 Howard Ave., Eugene, Ore.; AAA Fire Extinguisher and Equipment Co., 4809 N. 7th, Phoenix, Arizona; Adjustable Anchor Corp., Box 385, Richland; Trussbilt, 2575 Como Ave., St. Paul, Minn.; West Coast Metal Products, Inc., 110 Main, Edmonds; American Steel Products Corp., 410 Morgan Ave., Brooklyn, N.Y.

Project will involve 1—construction of 20,600 sq. ft. armament supply and storage building, a 4,390 sq. ft. motor service shop, with concrete tilt-up, poured concrete and masonry walls, steel roofing framing, precast concrete roof deck, insulated built-up roof, steam heating system, 2—steam distribution, 3—sanitary sewer, 4—storm sewer, 5—water lines and electrical service, 6—concrete walks, asphaltic concrete paving, seeding, 7—relocation of existing two-story wood frame building about 30'x93' and providing foundations and utility connections to same.

DM 11-7. Previous report 11-6

★RESTROOMS, BIRD LAKE, PACHYDERM HOUSE— Portland, Ore.

Award to James S. Hickey, 523 S.E. Stark St., Portland, $177,156, by L. W. Rayner, city purchasing agent, 208 City Hall, Portland, for construction of public restrooms and pachyderm house at the Portland Zoological Gardens in Hoyt Park. Plans were prepared by Lawrence, Tucker & Wallmann, architects, 912 Failing Bldg., Portland. Hickey was second low on the basic bid, but low on the combination of basic (restrooms), $51,591, and alternate B (pachyderm house) $126,332, less alternate C, $767. Alternate A for the bird lake was not exercised.

WB 11-7. Previous report 10-24

★SWIMMING POOL— Portland, Ore.

Award to Mason & Robinson, 2004 N.E. 137th Ave., Portland, $124,283 (basic plus alternate for use of aluminum pool edge), by Multnomah County School District No. 7, Robert Sproul, clerk, 20204 N.E. Halsey St., Portland, for construction of a 42'x75' swimming and diving pool in 8,000 sq. ft. concrete block building attached to gym at Reynolds High School Bldg. Plans by Edmundson & Kochendoerfer, architects, and R. Evan Kennedy, engineer, 325 Henry Bldg., Portland.

Supreme Builders, 4232 N. Williams Ave., Portland, was low on the basic bid, but their bid with alternate was $126,389. Third low with the alternate was Walker & Green, Route 3, Box 207, Oregon City, $129,188.

Existing locker and shower rooms will serve the pool; one side of building will open onto future sundeck area. Glued laminated beams supporting cedar roof deck and built-up roof; architectural plastic, bubble-type skylights; stucco exterior; concrete and plaster pool; exposed aggregate concrete deck; aluminum pool edge; diatomaceous filtering system and heating for pool.

WB 11-7. Previous report 10-30

DORMITORY ADDITION (Lounge-Recreation Area)— Portland, Ore.

Preliminary plans are underway by Scott & Payne, architects, 511 Builders Exchange Bldg., Portland, for an addition to the women's dormitory at Concordia College, 2811 N.E. Holman St., Portland. The addition, of steel and brick construction to match the existing building, will include a lounge, a 40'x40' recreation-assembly area, and kitchen facilities to serve the 75-80-girl dormitory. WB 11-8

BUILDING MODERNIZATION— Portland, Ore.

Plans to modernize the Yeon Bldg., a 15-story, half-block structure at 522 S.W. 5th Ave., have been announced by the new owners, Melvin Mark, Melvin Mark Jr. and Richard L. Mark, Morgan Bldg., Portland.

Plans are being prepared by Skidmore, Owings & Merrill, architects, 2040 S.W. Jefferson St., Portland. Harold Hockman, Morgan Bldg., will be managing agent of the building. WB 11-8

AZOO ENTRANCE BUILDING— Portland, Ore.

Four bids ranging from a low of $162,040 by Contractors, Inc., 1101 N.E. 21st Ave., Portland to a high of $216,365 were submitted November 7 to L. W. Rayner, city purchasing agent, 208 City Hall, Portland, for construction of entrance building, Contract Group 17, Portland Zoological Gardens, Hoyt Park, Portland. Plans by Lawrence, Tucker & Wallman, architects, 914 Failing Bldg., Portland.

Other bidders were: Teeples & Thatcher, 8130 S.E. Otty Road, Portland, $174,000; Gene Settergren, 3723 S.E. 21st, Portland, $174,650; Adolfo C. Bardi, 8105 S.E. Duke, Portland, $216,365. WB 11-8. Previous report 10-31

NURSES' HOME ADDITION— Portland, Ore.

A bid call is expected late in November by Emanuel Hospital, Paul Hanson, administrator, 2801 N. Gantenbein Ave., Portland, for construction of three-story, two-wing addition to the nurses' home at the hospital. Plans by Church, Newberry, Roehr & Schuette, architects, 619 Builders Exchange Bldg., Portland, are being cleared by the U. S. Health Service and the Housing & Home Finance Agency.

The wings, each 49'x69', will each have a full basement and provision for addition of a fourth floor; they will be combination dormitory and classroom units for science and the nursing arts. There will be some science laboratories in the classrooms, quarters for three housemothers, and guest rooms. Each floor of student rooms will have its own lounge, shower rooms and toilet rooms. A gymnasium-auditorium is planned for later construction.

Reinforced concrete construction; brick veneer and Indiana limestone facing; double hung steel sash; built-up roof; masonry corridor walls; metal stud partitions; metal lath and plaster on most walls and ceilings; some acoustical plaster and tile; rubber tile flooring; glazed blocks and ceramic tile in shower and toilet rooms; built-in wardrobes, dressers, bookcases, bulletin boards, etc.; natural birch woodwork; one automatic elevator; shaft for future elevator; radiators; mechanical ventilation in some areas. WB 11-11. Previous report 5-1

●**CITY HALL ANNEX ALTERATIONS—** Portland, Ore.

Bids will be opened 10 a.m., P.S.T., November 19 (Tentative) by Leonard W. Rayner, city purchasing agent, 208 City Hall, Portland, for alterations and revision of the two-story, 100'x130' building located on corner of S.W. 4th and S.W. Main, for use as city hall annex. (readvertisement) Plans with purchasing agent. $50 deposit. Plans by H. A. Herzog and D. O. Marks, architects, 410 Henry Bldg., Portland. Certified check or bid bond 10%. Separate bids on general, mechanical and electrical.

Bids were opened October 28 and rejected.

Plans call for wood and plasterboard partitions; acoustical ceiling; asphalt tile flooring; new plumbing and ventilating systems; fluorescent lighting. WB 11-11. Previous report 10-29

★**SHOP BUILDING—** Scappoose, Ore.

Award to Lorentz Bruun Co., 3636 S.E. 20th Ave., Portland, $118,786, by School District No. 4J, Columbia County, Faye Tarbell, clerk, Scappoose Union High School Bldg., Scappoose, for construction of a 12,000 sq. ft. steel and concrete shop building connected by covered walkway to the high school. Architects are Potter & Robinson, 1920 S.W. 57th Ave., Portland.

Building will contain agricultural and woodworking shops, band room, assembly room, toilets, heating plant and accessory rooms. Light steel frame; cement block filler walls; open web joists; wood or concrete board deck; built-up roof; plastic skylights; steel sash; concrete slab floor; some resilient floor covering; some cabinet work; some acoustical tile; incandescent lighting; oil-fired, forced hot water heating plant.

Other bids received October 23 are: Bickford Construction Co., 823 S.E. 28th Ave., Portland, $119,800; Anfelt B. Hansen, 4115 S.E. Ogden, Portland, $119,821; Mason & Robinson, 2004 N.E. 137th Ave., Portland, $121,980; Allen C. Lawson, 2520 S.W. Hamilton Court, $123,480; Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton, $124,593; Serge R. Perrin, 405 Ogden Drive, Oregon City, $124,726; Weston Construction Co., 7415 N.E. Glisan St., Portland, $126,300; Blanchard Construction Co., 2546 S.W. Vista Ave., Portland, $132,000. WB 11-7. Previous report 10-28

At Monterey: creativity and continuity (Cont'd from p. 33)

He singled out specialization as a detriment to the creative flair and warned that "originality for its own sake results only in derivatives."

Using materials as creative tools

In citing plywood as a creative tool, Tacoma architect Robert Billsbrough Price said: "My thesis has been, and is, to endeavor to build with simplicity; to reduce each project to the least common denominator, commensurate with what I believe to be good design. In my office we have practiced this thesis regardless of the medium with which we have chosen to build, be it concrete, steel or wood.

"I have found plywood a stimulating challenge. It has opened new vistas for creative design. The potentials of this material are unlimited; in our efforts to date, we have barely scratched the surface."

The material got a second plug from another Tacoman, David Countryman, research engineer for the Douglas Fir Plywood Association. He noted "how imagination plus research has resulted in the development of the folded plate design technique, a step which considerably increases the freedom of the creative designer" and told the architects that "with the continued use of your imagination, tempered by a realistic knowledge of what is practical in materials and construction, even greater development can be expected in the future."

Steel shared the spotlight with plywood as a creative tool when Elmer Gunnette of Seattle, district engineer for the American Institute of Steel Construction, reviewed a number of structures and how certain designers have used the material to control light and atmosphere. He talked about "its ability to become a bold simple line, in one instance; a weblike, lacy structure in another; or a mass seeming to float in air because its cantilevered arms are so much a part of the architectural expression that the structural function is almost indiscernible."

In summarizing the conference, Harry Weese said that the aim of creativity is to influence modern society toward a lasting order and that today's chaos will only be helped by the architects themselves writing a program. "Architecture is a social art and its individual practitioners must converse with one another," he added, emphasizing the profession's need to pause and reexamine the direction it is taking.

The Chicagoan concluded his remarks by stating that architects must face three basic questions: 1) Are we a molder of a way of life or merely a mirror? 2) Do we have the courage of our own convictions, while respecting each other's aims? 3) Do we regard life as a luau or as a solemn obligation?

Convention advisory committee members were chairman Loy Chamberlain and William S. Gillis (East Bay), Thomas S. Elston (Monterey Bay), George Hasslein (Santa Barbara), Walter S. Stromquist (Coast Valleys), Elisabeth Kendall Thompson and Worley K. Wong (Northern California).

Hawaii will host the '59 conference.

WASHINGTON

●**FLAGPOLE—** Aberdeen, Wash.

Bids will be opened 3 p.m., P.S.T., November 26, by General Services Administration, public buildings service, 909 1st Ave., Seattle, for removing existing roof flagpole and board walk and erecting new metal ground flagpole and concrete sidewalk at the U.S. Post Office in Aberdeen, Proj. No. SEA-1254. Plans with Seattle office. Completion time 45 calendar days. DM 11-7

CHURCH (Congregational)— Aberdeen, Wash.

A master plan for the proposed new First Congregational Church, Rev. Cyrus M. Gonigam, 1601 W. Sixth St., pastor, to be located at Scammel St. and Sumner Ave., Aberdeen, was approved by the congregation in September. Plans were prepared by Durham, Anderson & Freed, architects, 1100 Denny, Seattle. First canvass for funds will be made November 16.

When completed the new church will have seating space for 120, exclusive of the choir, with overflow space for an additional 40 in the adjoining parlor; a fellowship hall seating 150 at tables or 200 in meetings; room for a church school of 300; an administrative office and pastor's study; modern kitchen, storage and mechanical facilities. The first unit, to be constructed as soon as funds are available, will be the fellowship area, consisting of the narthex, the fellowship hall, kitchen, offices and several classrooms for small children.

RC 11-8. Previous report 11-5

SWIMMING POOL— Auburn, Wash.

Auburn voters on November 4 defeated a proposed bond issue of $250,000 to finance construction of a municipal swimming pool. Preliminary plans called for a year-around, indoor, heated pool to be built on a site north of 5th N.E. between J and M streets N.E., in Auburn.

RC 11-12. Previous report 8-15

FIRE HALL— Auburn, Wash

A proposed bond issue of $100,000 for construction of a new fire station in Auburn was passed at the November 4 election.

RC 11-12. Previous report 9-9

▲BOILERS— **Ault Field, Whidbey Island, Wash.**

Nine bids ranging from a low of $27,035 by A. J. Blythe Plumbing and Heating, 1313 Railroad Ave., Bellingham, to a high of $49,200 were submitted November 6 to 13th Naval District, bureau of yards and docks, Bldg. 250, U.S. Naval Station, Seattle, for replacement of three existing boilers in buildings at Ault Field, Whidbey Island; Spec. No. 18395/58.

2ND LOW: Gilbert Construction Co., 3034 Lynn St., Bellingham, $28,745. OTHER BIDS: Callahan Plumbing and Heating Co., 3211 Broadway, Everett, $31,046; Ideal Construction and Repair Co., 2911 Bond St., Everett, $30,372; Industrial Mechanical Contractors, 10340 Bothell Way, Seattle, $31,331; Lincoln Mechanical Construction Co., 714 Adams, Seattle, $38,235; Haskell Plumbing and Heating Co., 3014 Wetmore, Everett, $31,256; Bumstead & Walford Co., 1411 4th Ave., Seattle, $36,938; J. T. Thorpe Northwest Co., 3155 Elliott, Seattle, $49,200. Government estimate $28,730.

Bldg. 113—Remove existing boilers, inactive piping and unrequired equipment; replace with one new boiler and related equipment. Bldg. 127—Replace two existing boilers with new boilers and related equipment. DM 11-8. Previous report 10-30

SCHOOLS (Elementary, Junior High, Senior High)— **Bellevue, Wash.**

A proposed bond issue of $1,950,000 was passed by Bellevue voters on November 4. The bonds will finance construction of five new elementary schools, two new junior high schools and a new senior high school in the Bellevue area for Bellevue School District No. 405, George B. Brain, superintendent, Box 67, Bellevue. RM 11-12

LIBRARY— **Battle Ground, Wash.**

Bids will be called this month by Fort Vancouver Regional Library, 1511 Main St., Vancouver, for a 4,000 sq. ft. wood frame library building for the Battle Ground Branch. Plans are by Donald E. Eby, architect, 215 Adams Bldg., Vancouver.

One-story structure is designed for addition of 1,500 sq. ft. in the future; brick veneer exterior; concrete floor slab; glued laminated beams; wood joist roof; built-up roofing. WB 11-11. Previous report 9-10

FIRE STATION— **Bellingham, Wash.**

Voters in Bellingham approved a special levy (under three mills) to obtain $85,500 for a new northside fire hall. Site of the building has already been purchased by the city on the southwest corner of Alabama and Iron streets.

Bids will be called soon on construction of the building.

ET 11-11. Previous report 9-25

SCHOOL IMPROVEMENTS— **Bellingham, Wash.**

Voters defeated a $670,000 bond issue on the November ballot, designed to finance extensive school improvements in Bellingham School District No. 501, (Gordon L. Carter, superintendent), Bellingham. The money would have been used to finance an extensive enlargement and improvement program throughout the district.

DM 11-11. Previous report 9-17

★SCHOOL— **Cape Horn, Wash.**

Listed below are the six bids received November 4 by School District No. 15, Skamania County, Grade School, Cape Horn, for construction of Cape Horn-Skye Grade School on the Washougal River near Cape Horn. Plans are by Tuft, Hayslip, Hewlett & Jamison, architects, 2040 S.W. 3rd Ave., Portland. AWARD: L. E. Raley, 5709 Evergreen Highway, Vancouver, $218,215. OTHER BIDS: White Construction Co., 6008 N.E. Fourth Plain Road, Vancouver, $218,895; A. R. Nieman Construction Co., 2001 Main St., Vancouver, $221,236; Larry O. Collins, 7017 Highway 99, Vancouver, $223,994; Mason & Robinson, 2004 N.E. 13th Ave., Portland, $225,493; Al Lawson, 2520 S.W. Hamilton Court, Portland, $225,660.

WB 11-7. Previous report 11-6

HIGH SCHOOL— **Cashmere, Wash.**

(Estimated cost $630,000)

Plans will be completed and bids called about mid-January on a two-building, no basement, one-story, 44,000 sq. ft. high school in Cashmere. Bids will be called by School District No. 122, Chelan County, Cashmere. The school will be built on a site adjacent to the ball park, at Pioneer Ave. and Tigner Road.

Architect is Alvin S. Erickson, Central Bldg., Wenatchee; structural engineer, Donald Radcliffe, Central Bldg., Seattle; mechanical engineer, Stanley Webster, Lowman Bldg., Seattle; electrical engineer, Howard Schroedel, Lowman Bldg., Seattle.

Classroom building will be 104'x200'; gymnasium-shops and other buildings will be 80'x160', and 100'x100'. Poured concrete, tilt up concrete, solid masonry, block frame, metal, cement asbestos, brick drywall, walls; wood, aluminum trim on exterior walls; wood, steel panels on interior walls; concrete slab floors; timber, steel girders; flat roof, 1-12 slope; masonry, frame brick, block, drywall partitions; concrete stairways; aluminum windows, alt. for steel; wood floors in gymnasium, asphalt tile on others; acoustical ceilings; wood, steel doors; wood, steel cabinets; blackboards; fire doors; sprinkling systems; batt, rigid insulation in ceilings, walls, foundation walls; electric heat; unit ventilators, volume heaters; future consideration for air conditioning. A parking area will also be provided. Estimated costs include: $45,000 land; $630,000 construction, utilities; $35,000, furnishing and fittings; $10,000 landscaping.

DM 11-12. Previous report 9-25

ELEMENTARY SCHOOL— **Castle Rock, Wash.**

Voters approved a $250,000 bond issue November 4 for Castle Rock School District No. 401, Herbert Hansen, superintendent, Castle Rock, to qualify the district for state matching funds to help finance a new upper division elementary building in Castle Rock. The school district has retained Wolf and Zimmer, Pearson 4th Ave. Bldg., Portland, Ore., as architects for the project.

RM 11-12. Previous report 9-30

SCHOOLS— **Chehalis, Wash.**

Proposed bond issues totaling $408,000 for school construction were defeated in the November 4 election. Voters had been asked to approve $210,000 for a classroom and district office addition to Chehalis High School and $198,000 for building an outdoor athletic plant at the high school and for improving the athletic plant at Cascade Grade School, including extensive blacktopping, for Chehalis School District No. 302, Chester V. Rhodes, superintendent, R. E. Bennett Bldg., Chehalis.

RM 11-12. Previous report 8-13

★VISITORS' FACILITIES (Comfort Station)— **Columbia River, Wash.**

Award to Mann Construction Co. North City Limits, Redmond, Ore., $34,813, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of visitors' facilities involving 350 sq. ft. concrete masonry comfort station and outside utilities at Chief Joseph Dam, Columbia River, Wash.; CIVENG-45-108-59-4. Government estimate was $34,765.

Plans call for masonry comfort station, with concrete footings and floor, five-ply built-up roofing; installing plumbing and electrical work, including transformer, electric water heater, and electric unit heaters; installing water service, 1,200' in gallery of dam and 200' underground; installing underground electrical service; installing sewer line, septic tank, and drain field; construct concrete walks and flagpole pedestal and erect flagpole; install lawn sprinkler system with pump; fill, topsoil, fertilize and seed about one-half acre.

DM 11-7. Previous report 10-25

▲LOADING DOCK ROOF— **Clark County, Wash.**

Eight bids ranging from a low of $9,160, by A. R. Nieman Construction Co., 2001 Main St., Vancouver, to a high of $15,216, received November 5, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for construction of roof for the loading dock at J. D. Ross Substation, about three mi. north of Vancouver, in Clark County; Inv. No. 8882.

2ND LOW: Thompson & Georgeson, Inc., 1924 S.E. 6th Ave., Portland, $9,586. HI BID: Hallidie Builders, Division of Hallidie Machinery Co., Inc., 1915 N.E. Union Ave., Portland, $15,216.

WB 11-7. Previous report 10-24

SCHOOL (Shasta Park Area)— **Edmonds, Wash.**

Plans will be completed about December 10 by Dan F. Miller, architect, 404 Main St., Edmonds, for a 38,000 sq. ft., semi-campus plan, elementary school in the Shasta Park area for Edmonds School District No. 15, Edmonds.

Plans call for one story along the semi-campus plan; concrete footings and foundation. Drawings are in the preliminary stage.

DM 11-5

SCHOOL BUILDINGS— **Edmonds, Wash.**

Voters approved a bond issue for $800,000 placed on the ballot by Edmonds School District No. 15, Edmonds, to finance new school buildings needed during the next biennium. The levy to raise $200,000 was defeated. The next biennium covers 1960 to 1962.

Surveys had indicated that the district will need one new junior high school, two elementary schools in addition to the schools now existing, under construction or in the planning stage.

DM 11-11. Previous report 9-12

SWIMMING POOL— **Edmonds, Wash.**

A $65,000 levy for construction of a swimming pool in Edmonds was defeated at the November election. The levy was placed on the ballot at the request of the Greater Edmonds Area Service Association.

Thomas A. Purton, president of the association, said that group will now look into other means of financing the pool. Planned is a 40'x75', outdoor heated pool with dressing rooms and a filtered water plant.

DC 11-11. Previous report 9-12

▲CHURCH (Methodist)— **Edmonds, Wash.**

Seven firms submitted bids November 6 to Hughes Memorial Methodist Church for construction of a 16,630 sq. ft., one-story and basement, church building on the Edmond - Lynnwood Highway. No figures were released. Low bidder was Herbert U. Taylor, 11239 Arroyo Beach Place S.W., Seattle.

Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle, call for pitched roof; wood decking over glued laminated arches; hand-split cedar shake roof, rigid insulation in roof; vertical channel cedar siding, stone veneer, Welchboard exterior panels; steel sash; ⅝" plasterboard partitions; asphalt tile, vinyl asbestos flooring; carpeting on chancel and aisle; corrugated plastic skylight over chancel; folding doors; some colored glass; oil-fired forced warm air heating; gravel surfaced parking area for approximately 50 cars.

DM 11-12. Previous report 11-1

★RADIO RELAY BUILDINGS— **Ellensburg, Moses Lake, Ritzville, Wash.**

Award to L & S Construction Co., W. 1014 Broadway, Moses Lake, no amount released, by Pacific Telephone and Telegraph Co., 1200 3rd St., Seattle, for construction of three radio relay buildings in the central and eastern sections of the state. Bids from a select list of bidders were opened October 30.

One-story, 44'x61', reinforced concrete, identical buildings near Ellensburg, Moses Lake and Ritzville. Plans also call for a concrete foundation for a tower, to be placed adjacent to each building. Bids on the towers will be called later. Contract for the Ellensburg job includes construction of a one-mile access road from U.S. Highway 10 to the site which is about 16 mi. east of Ellensburg. Completion time, March.

When completed the buildings will contain telephone repeater equipment and powerplants. New buildings and owners are being added at Ritzville, Moses Lake, Kittitas, Cle Elum and Hyak in Snoqualmie Pass, and existing facilities are being expanded at

Sprague and Rattlesnake Lodge near North Bend. The complete long distance, high-frequency radio system, which is expected to be completed late in 1959 or early 1960, will link up at Spokane with a similar system extending to the midwest.
RM 11-7. Previous report 10-25

REMODELING HOSPITAL— Ellensburg, Wash.

A proposal to form a hospital district to use and improve the Sorenson Memorial Hospital in Ellensburg and to keep intact the Roslyn-Cle Elum Beneficial Association Hospital in Cle Elum, which appeared on the November 4 ballot, was defeated. Preliminary plans by Doudna-Williams and Phipps, architects, Miller Bldg., Yakima, for remodeling the Sorenson Hospital building. Present estimates on the renovation run to about $74,000 for 45 beds and $145,000 for 90 beds.
IG 11-8. Previous report 9-30

JUNIOR HIGH SCHOOL— Ephrata, Wash.

A bond issue of $490,000 was defeated by a small margin November 4. Absentee votes will determine the issue. If the measure does pass, funds will be used to finance construction of a new junior high school, remodeling and repairing existing buildings, and acquisition of land for Ephrata School District No. 165, Ephrata. Rothe & Rothe, architects, 807 W. Yakima Ave., Yakima, have been retained to prepare plans for the junior high school.
IG 11-8. Previous report 10-15

■COUNTY BUILDING— Everett, Wash.

Planholders announced on construction of the county agricultural building on which bids will be opened 2 p.m., November 17, by Snohomish County Commissioners, Courthouse, Everett. Plans with above office.

Planholders: Metropolitan Construction Co., 1008 Broadway, Everett; Sanford Wright, 2826 Wetmore, Everett; Chet Solie, 7514 Juniper Drive, Everett; Frank Damson, Route 2, Everett; Newland Construction Co., 3302 Hill, Everett; Roy Rudd, 2911 Bond, Everett; Pete Spadafore, 607 Maulsby Lane, Everett; Shaffer Construction Co., 3409 Everett St., Everett; Associated Sand and Gravel, 6300 Glenwood, Everett; Granquist Engineering and Construction Co., 1775 15th S., Seattle; Hainsworth Construction Co., 3028 Western, Seattle; Venne Beauchamp, 2934 Broadway, Everett; Dale Madden, 3010 E. 163rd, Seattle; H. O. Seuffert, 2400 Hewett, Everett; Puget Sound Builders, 2626 Hoyt, Everett.
HH 11-8. Previous report 10-28

CITY HALL— Ferndale, Wash.

The First Washington Corporation has been retained by City Council, City Hall, Ferndale to draw up a bond resolution on $40,000 worth of general obligation bonds to raise money for either the purchase and remodeling of a former bank building, or construction of a new city hall, with facilities for fire fighting equipment.
ET 11-11

ELEMENTARY SCHOOL (Artondale)— Gig Harbor, Wash.

Bids will be called in early December by Peninsula School District No. 401, Star Route, Box 575, Gig Harbor (C. H. Rowe, superintendent, Peninsula High School, Purdy), for construction of the 18,000 sq. ft., one-story, no basement Artondale Elementary School, which is to be located about three mi. south and one mi. west of Gig Harbor on Artondale Road. Plans by Worthen, Wing, Seifert & Forbes, architects and engineers, 925 Tacoma Ave. S., Tacoma. The plans are now with State Department of Education in Olympia for approval.

Concrete foundation; block and frame walls; concrete slab floors; timber beams; glued laminated truss roof; masonry and frame partitions; concrete stairways; wood windows; board type wall batt insulation in roof; concrete block and wood exterior walls; sheet rock interior walls; wood trim both exterior and interior; exposed masonry and drywall partitions; asphalt tile and ceramic tile floors; acoustical ceilings; wood and steel doors; wood cabinets; folding doors; corrugated plastic panels; blackboards; fire dors; hot water oil heating.
RM 11-8. Previous report 11-1

▲ELEMENTARY SCHOOL ADDITION, REMODELING— Gig Harbor, Wash.

Bids were opened 8 p.m., November 5, by Peninsula School District No. 401, Star Route, Box 575, Gig Harbor, in the office of C. H. Rowe, superintendent, Peninsula High School, Purdy, for construction of a four-classroom addition to the Harbor Intermediate School building at Gig Harbor. Plans by E. L. Mills & Associates, architects, 308 Tacoma Ave., Tacoma.

LOW BIDS: Jardeen Bros., 1240 S. Sprague, Tacoma, $99,000; G. Kirkebo & Son, 1410 Mountain View, Tacoma, $99,780; Standard Construction Co., 315 E. 25th St., Tacoma, $101,900.

Concrete footings, foundation; poured concrete walls; concrete slab floor; glued laminated beams; flat roof; frame partitions; aluminum windows; batt insulation in ceiling; brick and plywood exterior finish on walls; plaster board interior wall finish; drywall partitions; asphalt and ceramic tile flooring; acoustical ceiling; wood interior and steel exterior doors; wood cabinets; blackboards; fire doors; fluorescent lighting; unit ventilator, oil-fired heating.
DM 11-7. Previous report 11-5

ELEMENTARY SCHOOL— Harrah, Wash.

A bond issue of $105,000 was passed at the November 4 election and preliminary drawings are underway for construction of a six-classroom elementary school in Harrah, for Harrah School District No. 108, Victor Anderson, superintendent. Architects: Don Gochnour and Edward Marble, A.I.A., Miller Bldg., Yakima.
IG 11-8. Previous report 9-18

●OFFICE—Hemlock Ranger Station, Wash.

Bids will be opened 2 p.m., P.S.T., December 1, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland, Ore. (Box 4137) for construction of a one-story, 80'x24', frame, dual office at Hemlock Ranger Station on Gifford Pinchot National Forest, Skamania County, Wash. Plans with above office or with forest supervisor, 801 W. 8th, Vancouver, Wash.

A show-me trip has been arranged to afford prospective bidders an opportunity to view the site and discuss conditions with Forest Service representatives on the ground. The tour will start from the Hemlock Ranger Station at 10:30 a.m., P.S.T., November 18. Prospective bidders are encouraged to take advantage of this opportunity to get pre-bid information. DM 11-8

▲HOUSING IMPROVEMENTS— Larson AFB, Wash.

Bids were opened November 5 by the base procurement office at Larson Air Force Base, near Moses Lake, for remodeling and constructing additions to the 800 units of Wherry Housing at the base. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima.

Four bids were submitted as follows: Lewis A. Hopkins Co., 221 S. 3rd St., Pasco, $1,628,232; Yager Construction Co., Inc., 1st Ave. and A St. S.E., Ephrata, and Fairbanks Construction Co., 308 Gumwood, Moses Lake, a joint venture, $1,705,027; Jensen-Rasmussen & Co., Box 89, Sunnyside, $1,968,788; Wright-Lease, 1501 N. 35th, Seattle, a joint venture, $2,098,056.

Award will be made late in November.

Plans call for 28 items of work, which include: structural repairs and alterations; repairs to roofing, sash, and mechanical and electrical facilities including replacement of electrical service panels, installation of storm windows and screens; installation of kitchen cabinets, and construction of additions to some units. Sixteen alternate items call for additions to more units, additional kitchen cabinets, sidewalks, repair of driveways, and 60,000 sq. yds. of repair of streets. DM 11-7. Previous report 11-1

SWIMMING POOL— Longview, Wash.
(Estimated cost $280,000)

Bids will be called early in 1959 on construction of 120 foot square building with an L-shaped, 90'x120' pool, by Longview School District No. 122, Scott Milligan, superintendent, 28th and Lilac, Longview. Preliminary plans have been completed by McGuire & Muri, architects, 231 Broadway, Tacoma.

The indoor-outdoor swimming pool building will be located west of the Mark Morris High School gymnasium and will be equipped on the southern end with sliding glass doors. Plans also call for a concrete outdoor area. Spectator stands are tentatively planned on the north side of the pool.
DC 11-5. Previous report 10-8

●CHURCH (Saint Rose)—Longview, Wash.
Correction

Bids will be opened 2 p.m., November 25, by Most Rev. Thomas A. Connolly, archbishop of Seattle, 907 Terry Ave., Seattle, for construction of church and rectory building at 2571 N. Nichols Blvd., Longview, for the Saint Rose parish. The wrong bid opening date was given in the previous news item.

Plans with E. L. Mills & Associates, architects, 308 S. Tacoma Way, Tacoma. Structural engineer is Smith & Murray, Perkins Bldg., Tacoma.

Church would be one-story, the rectory two-story; 90'x129'; built on piling. Stone and brick veneer; poured concrete and solid masonry walls; concrete slab floors; steel, concrete and timber beams and columns; low pitched roof; metal stairways; aluminum windows; insulation in roof; wood paneling on interior wall finish; plaster on gypsum lath interior partitions; ceramic tile, terrazzo and vinyl tile flooring; plaster, acoustical ceilings; wood and steel doors, wood cabinets; various types of lighting; warm air heating system, oil-fired.
DC 11-12. Previous report 11-11

★ALUMINUM DOORS— Lynden, Wash.

Award to VanWerven & VanAndel, Lynden, $845, by General Services Administration, 909 1st Ave., Seattle, for installing aluminum entrance doors on the U.S. Post Office at Lynden; Proj. No. SEA-1220.
DM 11-12. Previous report 10-31

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HIGH SCHOOL (Kent-Meridian)— **Kent, Wash.**

An $850,000 bond issue for the building fund for Kent-Meridian School District No. 415, Kent, was approved November 4. Two other levies, one for $150,000 for the building fund and the other, $75,000 for general fund, were defeated but will come up for vote again either in the spring or fall next year.

It was planned that the $850,000 bond issue plus the $150,000 levy would be used to finance three additions, totaling 40,000 sq. ft., and alterations to two existing rooms at Kent-Meridian High School, in Kent School District No. 415. The additions will house a cafeteria-auditorium, classrooms, dramatics and music rooms, girls' shower facilities and a central kitchen. Plans will be completed soon by Mallis & DeHart, architects, Lyon Bldg., Seattle.

RM 11-12. Previous report 10-31

●RESIDENCES, DORMITORY— **Kittitas County, Wash.**

Bid opening extended from November 10 to 3 p.m., November 17, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., (Box 4137), Portland, Ore., for construction of two residences, two bathhouses and a 10-man crew quarters building at Naches Ranger Station about 36 mi. northwest of Yakima on Snoqualmie National Forest, Kittitas County, Wash.; Bid No. R6-59-138. Plans with forest supervisor, 905 2nd Ave. Bldg., Seattle, or from the Portland office. WB 11-12. Previous report 11-7

AIR FORCE BUILDING (Readiness Crew)— **McChord AFB, Wash.**

Bids will be called soon by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of readiness crew building, 70-man capacity, at McChord Air Force Base; ENG-45-108-59-29. Plans with Seattle office. Completion time 270 calendar days.

Work consists of 1—construction of a reinforced concrete and masonry building of approximately 20,000 sq. ft. with steel joists, metal roof deck, insulated built-up roof, 2—mechanical, electrical, ventilation and food service equipment, 3—grading asphaltic concrete pavement, water, sewer and electrical service, lawns. DM 11-1

BUILDING (Forest Lookout)— **Mount Baker, Wash.**

Mount Baker forest supervisor, Glenn Rhoton, has announced that his department may rebuild the Autis Pass lookout building which was recently destroyed by fire. If so, the structure will be erected farther down the hill where it can be used year around to house forest service personnel.

ET 11-4

●OFFICE BUILDING ADDITION (General Administration Annex)— Olympia, Wash.
(Estimated cost $2,000,000)

Bids will be opened 3 p.m., P.S.T., December 5, by Department of General Administration, 218 General Administration Bldg., Olympia, for construction of a 120,000 sq. ft. annex to the General Administration Bldg. in Olympia. Plans with engineering office of General Administration, above address. $25 deposit. Plans by Harmon, Pray & Detrich, architects, 2000 Fifth Avenue Bldg., Seattle.

Basement, ground floor, four upper levels; 147'x147'; reinforced concrete joists; facade to match that of existing building; metal movable partitions; vinyl tile flooring; suspended acoustical tile ceilings; recessed light; heating from central heating plant.

DC 11-7. Previous report 9-13

HIGH SCHOOL— Olympia, Wash.

A 40-acre tract known as the Cloverfield site is being discussed as a suitable location for Olympia's proposed new high school, according to Dr. Rolland Upton, city school superintendent. The tract is located in the middle of the "U" being formed by Olympi's expanding suburb area. RG 11-11

POST OFFICE— Oroville, Wash.

Construction of a new post office at Oroville, at Central Ave. and Golden St., near the telephone dial system plant, has been authorized. The structure will be 56'x70' with a 15'x36' loading and unloading platform. RC 11-8

★BUILDING IMPROVEMENTS— Oroville, Wash.

Award to Claud Gann, Okanogan, $34,985, by General Services Administration, Federal Office Bldg., 909 1st Ave., Seattle, for improvements and repairs to the U.S. Border Station in Oroville; SEA-835.

RM 11-8. Previous report 10-2

●PARTITIONS, FLOORING, SHINGLING— Paine AFB, Wash.

Bids will be opened 2 p.m., P.S.T., December 4 by base procurement office at Paine Air Force Base for modifications to Bldg. No. 762 at the base; Inv. No. 45-602-59-53. Plans with above office. Bid bond 20%.

Work involves 1—covering existing walls and ceiling with ½" gypsum wallboard and insulation, 2—covering concrete floor slab with asphalt tile, 3—modifying workout room floor slab by overlaying with hardwood floor, 4—providing enameled hardboard wainscoting 4' high around all walls, 5—covering existing exterior siding with cement asbestos shingles, 6—providing all other carpentry, framing, millwork required to finish interior. HH 11-11

CHEMISTRY BUILDING ADDITION— Pullman, Wash.

Dr. C. Clement French, president of State College of Washington, Pullman, has reported that the U.S. Public Health Service, Washington, D.C., is making a construction grant of $205,400 to the College (with stipulation that matching funds be raised from other sources) to be used for construction of an addition to Fulmer Hall (chemistry building) on the campus. The State Finance Committee had earlier allocated $1,957,592 to the College for this purpose, conditional on Referendum 10 passing at the November 4 state election. Preliminary plans being prepared by Harmon, Pray & Detrich, architects, Lloyd Bldg., Seattle.

MH 10-31. Previous report 9-3

ROOF ENCLOSURE— Pullman, Wash.

U.S. Public Health Service, Washington, D.C., is making a construction grant of $18,160, contingent on raising matching funds from other sources, to the State College of Washington, Pullman, to aid in the cost of constructing a roof enclosure on Science Hall to increase facilities for cancer and other research. Dr. C. Clement French, president of the College, said that the matching funds for this project are now available. Glenn Wegner, of the College architect's staff, reports that plans for the enclosure are being drawn. MH 10-31

JUNIOR HIGH SCHOOL— Pullman, Wash.

Directors of Pullman School District No. 267, Pullman, have selected a site on Pioneer Heights for a proposed junior high school. Preliminary plans will be started soon by McClure & Adkison, architects, Sherwood Bldg., Spokane. Financing details have not been completed as yet. It may be a year or more before construction can be started. The building will have a 700-pupil capacity.

MH 11-4. Previous report 8-30

LIBRARY— Pullman, Wash.
(Estimated cost $120,000)

Voters of Pullman passed a bond issue of $100,000 for construction of a new library on November 4. In addition to the bond issue, an estimated $18,000 from private gifts is available. Architect is Kenneth Storment, Hutton Bldg., Spokane.

MH 11-8. Previous report 10-16

WAREHOUSE— Pullman, Wash.

A bond issue of $55,000 to finance construction of a city warehouse and yard was passed at the November 4 election in Pullman. Kenneth Storment, Hutton Bldg., Spokane, has been retained as architect by the City Council.

MH 11-8. Previous report 10-16

SWIMMING POOL— Pullman, Wash.

A bond issue of $121,000 for a second city swimming pool and some limited park improvements in Pullman was passed at the November 4 election. An architect-engineer has not yet been retained to draw up plans for the pool, which will be constructed adjacent to the present pool on city property in Reaney Park.

MH 11-8. Previous report 9-19 (City Improvements)

UTILITY BUILDINGS— Pullman, Wash.
(Estimated cost $12,000)

Voters in Pullman passed a $12,000 bond issue on November 4 to finance construction of small buildings at two cemeteries in Pullman. Kenneth Storment, Hutton Bldg., Spokane, is architect.

MH 11-8. Previous report 10-16

POWER PLANT ADDITION— Pullman, Wash.
(Estimated cost $300,110)

Plans are underway by W. O. Stevens & Associates, consulting engineers, 7827 S.E. 30th, Mercer Island, for a power plant addition at State College of Washington, Pullman. MH 11-12

▲ELEMENTARY SCHOOL ADDITION— Puyallup, Wash.

Bids were opened November 6 by Edgemont School District No. 342, 809 4th Ave. N.E., Puyallup, for construction of a 7,863 sq. ft., one-story, no basement, addition to the above elementary school. Plans by Donald F. Burr, A.I.A., & Associates, architects, Lakewood Center, Tacoma; Sitts & Hill, structural engineer, 2901 S. 40th, Tacoma; Whitson-Miller & Associates, mechanical engineer, 2903 S. 40th, Tacoma.

LOW BIDS—GENERAL: Korsmo Bros., 5944 Lake Grove S.W., Tacoma, $57,212; G. Kirkebo & Son, Inc., 1410 Mountain View, Tacoma, $59,300; Cascade-Olympic Construction Co., Pickering Pass, Shelton, $29,850. MECHANICAL: Weber Plumbing and Heating, 110 N. Tacoma Ave., Tacoma, $22,740; Lents, Inc., 279 4th St., Bremerton, $22,991; Pease & Son, Box 2037, Parkland, $23,127. ELECTRICAL: The low bidder on this project was North Puyallup Electric Co., 1320 18th N.E., Puyallup, $15,000, but as this bid did not fulfill all legal requirements, it may not be accepted. 2ND LOW: Ault Electric Co., 4625 N. 11th, $16,242. 3RD LOW: Electric Construction Co., 1650 Center, Tacoma, $16,-288. Alternates may place this firm in the place of the low bidder.

Frame and brick veneer exterior walls; concrete slab floors; timber girders; glued laminated truss for roof; steel windows; batts, fiberglass, aluminum foil insulation in ceiling; brick and wood exterior walls; sheetrock and wood interior walls; drywall partitions; asphalt tile, terrazzo, flooring; acoustical and plastic suspended ceilings; wood doors; wood cabinets; folding doors; blackboards and cork boards; hot-air boiler; oil-fired fuel, extending existing system.

DM 11-8. Previous report 10-30

SCHOOL REMODELING— Puyallup, Wash.

A bond issue in amount of $600,000, which had been placed on the November 4 ballot by School District No. 3, Paul B. Hanawalt, superintendent, 605 W. Main, Puyallup, Pierce County, was defeated. The proposed bond issue was to finance remodeling and enlarging several elementary schools within the district. RM 11-12. Previous report 9-30

●RESIDENCE— Randle Ranger Station, Wash.

Bids will be opened 2 p.m., P.S.T., November 26, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland, Ore. (Box 4137) for construction of a residence at Randle Ranger Station on the Gifford Pinchot National Forest, Lewis County, Wash. Plans with above office or with the forest supervisor, 801 W. 8th, Vancouver, Wash.

Project will involve construction of the residence and installation and connection of water and sewer lines from a point five feet outside building lines. DM 11-7

SWIMMING POOL— Redmond, Wash.

Plans are underway by James B. Conyers, engineer, 16255 N.E. 28th St., Bellevue, for a swimming pool in Redmond. One hundred families in the Highlands area have formed

an organization to finance and plan for the pool. Construction will start early in 1959. Completion time May 30. DM 11-8

SCHOOL CONSTRUCTION— Renton, Wash.

A proposed bond issue of $3,500,000 for new schools, which appeared on the November 4 ballot, was approved. The new construction program for Renton School District No. 403, 1525 4th Ave. N., Renton, may include: a 20-room elementary school in Honeydew area; an elementary school in Spring Glen area; purchase of a site for an elementary school in Earlington area; and a future addition to the A. W. Dimmitt Junior High School, which is now under construction at 80th S. and S. 123rd, Renton.
RM 11-12. Previous report 8-8

OFFICE BUILDING (Nebar Bldg.)— Seattle, Wash.

Construction will start early in 1959 by Don Williams Co., architects and builders, 314 Fairview N., Seattle, on a two-story, 120'x120' office building on the southeast corner of Minor Ave. and Republican St. The owner is Nebar Supply Co., 300 Western Ave., which firm will occupy one section of the building. The remaining space will be leased.

Plans call for reinforced concrete walls; space for parking 40 cars on the roof.
DC 11-4

★BRONZE CASTINGS— Seattle, Wash.

Award to Zandt Brass Foundry, 3400 Harbor Ave. S.E., Seattle, $2,250, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 12 bronze door castings and 12 bronze base castings. DM 11-8. Previous report 11-1

●CHURCH SANCTUARY, WING— Seattle, Wash.
(Estimated cost $250,000)

Bids will be opened November 21 by Queen Anne Lutheran Church, for construction of a two-story and basement 10,000 sq. ft. church, including nave, chancel, administrative area, two classrooms and a fellowship hall, on the site of the present structure at 8th Ave. W. and W. McGraw, Seattle. Plans may be obtained from Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.

Plans call for a 400-capacity sanctuary including choir loft; a wing with 500 capacity Sunday school; 50 capacity chapel; 250 capacity fellowship hall; youth room; scout unit; kitchen. Three residences on the site which are currently serving as Sunday school, will be removed to make way for the first phase of construction which is Sunday school and administrative area. Following completion of this phase, the existing church building will be razed and the sanctuary will be built.
DM 11-8. Previous report 4-22

▲LABORATORY ALTERATIONS— Seattle, Wash.

Bids were opened for the second time by General Services Administration, 909 1st Ave., Seattle, for laboratory alterations to the Federal Office Building, above address. SEA-1021. Low bidder was Bordner & Fairchild, 4756 48th N.E., Seattle, $28,990. Previous bids were rejected and plans revised for the November 6 bid opening.

Other bidders were: Red-e Construction Co., 6056 37th N.E., Seattle, $29,826; Palmer Shops, 538 N. 78th, $31,685; C & R Builders, 1619 8th Ave N., Seattle, $33,760; Jack Fast, 22 Etruria, Seattle, $35,631; Dale M. Madden, 3010 E. 163rd, Seattle, $45,833.
DM 11-8. Previous report 10-2

▲PARTITIONS, WIRING, HEATING— Seattle, Wash.

Three bids were opened November 7 by 13th Naval District, public works office, Bldg. 250, U.S. Naval Station, Seattle, for miscellaneous revisions and additions to Bldg. 250 at the above station; Spec. No. 18435/58. BIDS: Jack Fast, 22 Etruria, $3,378; C & R Builders, Inc., 1619 8th N., $3,472; Wayne Construction, Inc., 3810 Stone Way, $3,888. All of Seattle.

Work involves installation of stud wall partition and door ventilating fan; removal and relocation of movable partitions, sprinkler heads, radiators, electrical wiring and fixtures; painting; other miscellaneous repairs. Estimated cost range is under $10,000.
DM 11-11. Previous report 10-28

▲HEATING SYSTEM— Seattle, Wash.

Eight bids ranging from a low of $1,650 by Reliable Sheet Metal Works, Russell and 20th N.W., Seattle, to a high of $4,906, were submitted November 7 to 13th Coast Guard District, 618 2nd Ave., Seattle, for installing hot air heating systems in the two dwellings at Alki Point Light Station, Seattle; No. F-1852.

Other bidders were University Sheet Metal Works, 1218 Howell, Seattle, $1,487; Northwest Burner Oil Co., 833 E. 110th, Edmonds, $1,914; Angel & Nelson, 2020 Hewitt, Everett, $2,390; West Seattle Furnace Sales Co., 4447 35th S.W., Seattle, $2,396; Stahler & Nelson, Inc., 1544 Ballard Way, Seattle, $2,830; Heating and Wiring Installers, Inc., 3612 1st S., $2,966; Harold C. Musselman, Everett, $4,906.
DM 11-11. Previous report 10-24

●BLOWER SYSTEM— Seattle, Wash.

Bids will be opened 10 a.m., November 18, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one blower system to be installed in City Light offices, 4th S. and Spokane S.E., Seattle. The blower fan will be directly connected to a 20 hp, 18 rpm motor. Plans with purchasing office. DM 11-12

●LIGHTING FIXTURES— Seattle, Wash.

Bids will be opened 11 a.m., November 17, by Seattle School District No. 1, Frank M. Brock, secretary, 815 4th Ave. N., Seattle, for lighting fixtures. Specifications with above office. Certified check or bid bond 5%. DC 11-12

HOTEL (Sea-Tac Airport)— Seattle, Wash.
(Estimated cost $3,000,000)

Plans will be completed late in November by Rolland Denny Lamping, architect, 1314 E. John St., Seattle, for a vari-level, 140-unit hotel to be constructed on a nine-acre tract adjoining the Seattle-Tacoma Airport and facing the intersection of Highway 99 and S. 188th St., between Seattle and Tacoma. Sponsor of the hotel, which will be named Sweptwing Inn, is Cosmopolitan Builders of Seattle. President is H. W. I. Johnston. Other associates are L. G. Justice, realtor, Seattle; Dorsey Prater, Burien; Ray Torbenson, attorney, Seattle. Financing by National Mortgage Co., Inc., 224 Dexter, Seattle.

Plans call for two wings extending from the main lobby of the hotel; a swimming pool, recreation areas. Ramps will connect with the various levels, linking living units to shopping galleries, restaurants and other facilities.

Present plans call for construction of 140 units. Eventually, there will be 300 units.
DM 11-12

CHURCH (Bethel Lutheran)—Seattle, Wash.
(Estimated cost $200,000)

Plans will be completed early in the year and bids called late January or early February on a one-story and basement church for Bethel Lutheran Church of Shoreline. The new structure will be built at 8th Ave. N.E. and E. 175th St. Architect is Durham, Anderson & Freed, 1100 Denny Way.

The existing church will be used for administrative offices and Sunday school classes. The new building will seat 500 persons. Pastor is the Rev. Dr. Carl O. Pederson. DM 11-12. Previous report 4-12

★ROOFING— Seattle, Wash.

Award to C & R Builders, Inc., 1619 8th N., Seattle, by General Services Administration, 1619 8th N., Seattle, for installing new roofing and remodeling offices of the U.S. Courthouse, 5th Ave. and Madison, Seattle; SEA-1164.
DM 11-12. Previous report 11-6

▲RESIDENCE— Seattle, Wash.

Bids received November 7 by Stanley Paris, owner, for construction of a 50'x30' split-level residence at 5220 Juneau St., Seattle, were rejected as too high. A new bid call will be issued soon. Plans were prepared by George W. Lucker, architect, 7915 Rainier Ave., Seattle.

Two-story and basement; 1,450 sq. ft.; frame joist, built-up roof; blanket insulation between roof joists; cedar siding, cement-asbestos panels, mediterranean brick; glass stopped in wood, aluminum Z-bar sash; dry-wall partitions; rockwool ceilings; resilient tile, flooring, carpeting; wood cabinets; laminated plastic counter tops; hot water heating. Approximately 600' of outside wood decks planned.
DM 11-12. Previous report 11-5

★FLOOR TILE— Seattle, Wash.

Award to Elite Shade and Linoleum Co., 2929 Blakely St., Seattle, 15¾ cents per sq. ft. by Charles W. Ross, executive director, Housing Authority of Seattle, 825 Yesler Way, for furnishing 55,000 sq. ft. of vinyl type floor tile. The low bidder, Fryer-Knowles, Seattle, did not receive the contract because of delivery specifications.
DM 11-12. Previous report 11-5

SCHOOL BUILDINGS— Seattle, Wash.

Two proposed bond issues, one for $362,000 and the other for $129,000, both for building within South Central School District No. 406, Richard C. Langton, superintendent, 4640 S. 144th St., Seattle, were defeated November 4. The bond issues were turned down previously in an election held in September.
DM 11-12. Previous report 9-16

MEDICAL BUILDING— Seattle, Wash.
(Estimated cost $1,200,000)

Construction will start soon with completion set for July, by Frank H. Sallinen Co., 2653 W. Lynn, Seattle, owner-contractor, on a two-story, 40-unit medical building at 1001 Broadway at Madison. Plans by Nelson & Siegenthaler, engineers, 3219 E. 123rd, Seattle.

Plans call for quarters for 40 doctors; a snack bar and restaurant, offices for building management; brick and frame with Wilkeson stone trim; acoustical tile ceiling; dry wall and hardwood paneling on interior walls; a troweled-on mixture of aggregate and rubber with latex binding for floor covering. DM 11-12

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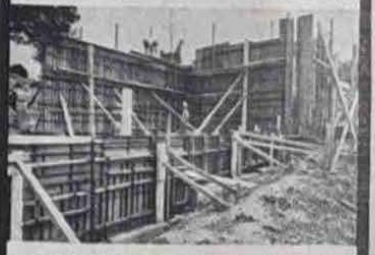

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★RESIDENCES—
Snohomish and Skagit Counties, Wash.

Award to Darrington Hardware & Supply Co., Inc., Darrington, $72,278, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland, Ore. (Box 4137) for construction of three residences at Darrington Ranger Station and one residence at Marblemount Ranger Station in Mount Baker National Forest, Snohomish and Skagit counties, Wash.; Bid No. R6-59-136.
WB 11-12. Previous report 11-7

SKI RESORT (Crystal Mountain)—
Snoqualmie National Forest, Wash.

A ski resort, to be called Crystal Mountain Winter Sports Area, is planned in the Silver Creek area, 32 mi. southeast of Enumclaw and 75 mi. from Seattle and Tacoma in Snoqualmie National Forest. A conditional permit has been granted by the U.S. Forest Service to Crystal Mountain, Inc.

The area is located at the center of a series of ski bowls at the head of Silver Creek, six mi. east of Silver Creek Resort. Initial resort improvements include a double chair lift 6,400' long from the lodge and parking area to the top of Crystal Mountain at 6,800' elevation; a poma lift 1,840' long; four rope tows; parking for 1,000 cars; warming hut with lunchroom; public rest rooms; ski shops; a six mi. access road from Highway 410.
DC 11-12

● POSTOFFICE ANNEX— Spokane, Wash.

Bids will be opened 2 p.m., January 20, in Post Office headquarters in Washington, D.C., for construction of a terminal annex facility for the post office department in Spokane. Plans with regional real estate office, Main Post Office Bldg., Box 3703, Portland, Ore.

The building will be constructed and financed by private interests who will then lease the quarters to the government.

Post office terminal will have one story and partial two stories; partial basement; 125,000 sq. ft. Garage facilities will have 4,100 sq. ft. with adequate platform and parking area.
DC 11-12

APARTMENT (Belmont Terrace)—
Tacoma, Wash.

Plans are underway by Louis Pedersen, architect, 915½ Pacific, Tacoma, for a 24-unit apartment for the Home Apartments Co., Inc., on a site at the corner of Tacoma Ave., Division and Broadway in Tacoma. The corporation, formed by Dr. Charles Larson, realtor Leo Seiwerath, and Jardeen Bros. Building Contractors, 2140 S. Sprague, Tacoma, will sell the apartments to tenants.

Each apartment in the building (to be called Belmont Terrace) will contain two bedrooms, living room, kitchen and a bath and a half. Off-street parking will be provided in the lower portion of the building.
DC 11-4

● OFFICE, WAREHOUSE—
Toppenish, Wash.

Bids will be opened 4 p.m., November 21 in the office of the architects, Don Gochneur and Edward Marble, Miller Bldg., Yakima, for construction of a service center, warehouse and office building for Pacific Power and Light Co. in Toppenish. Plans with architect. $25 deposit.

Concrete block; built-up roofing; glued laminated beams; masonry columns and partitions; concrete floors; some plaster walls.
IG 11-11. Previous report 11-4

CHURCH (Congregational)—
Vancouver, Wash.

First Congregational Church, 14th and Main streets, Vancouver, has voted to retain Warren Weber, architect, 610 Fenton Bldg., Portland, to plan a remodeling of the existing church, or construction of a new church.
WB 11-8

LODGE (Eagles)— Walla Walla, Wash.

Bids will be called late in November on construction of an Eagles lodge in Walla Walla. Plans are underway by Thomas O. Williams & Associates, architects, 20 S.E. 3rd, College Place. Mechanical and electrical engineer is H. Jack Reeves, Symons Bldg., Spokane.

Building will be 260'x120' with lodge facilities occupying a portion of the space and a 16-lane bowling alley the remainder. Poured concrete slab; concrete block walls; some prefinished panels and brick on front. The alley section will have steel frame roof with long span trusses and a wood deck.
DC 11-8

SCHOOLS— Walla Walla, Wash.

Barring the possibility of a reversal when absentee ballots are counted, voters in Walla Walla School District No. 140, Walla Walla, have authorized a $2,500,000 bond issue for school construction.

Plans call for remodeling of Walla Walla High School and construction of a new $1,650,000 high school in southern section of the city.
MH 11-11

CHURCH (Methodist)— Winlock, Wash.

Preliminary plans have been completed by Donald E. Eby, architect, 215 Adams Bldg., Vancouver, for a Methodist Church at Winlock with seating capacity of 300 in the nave.
WB 11-11

SCHOOL ADDITION (Summitview Elementary School)— Yakima, Wash.

Preliminary drawings have been approved by West Valley School District No. 208, Harold Griffith, superintendent, Route 4, Yakima, on a five-classroom addition and multipurpose addition to Summitview Elementary School, Yakima County. Plans by John S. Villesvik, architect, and Maurice Smith, associate, 109 N. 3rd, Yakima, call for brick exterior to match existing building.
IG 11-4

SCHOOL ADDITION (West Valley High School) — Yakima, Wash.

Preliminary plans have been approved by West Valley School District No. 208, Harold Griffith, superintendent, Route 4, Yakima, for a five-classroom addition to West Valley High School, Yakima County. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima, call for concrete block exterior to match existing building.
IG 11-4

SCHOOL ADDITION (Mountain View Elementary School)— Yakima, Wash.

Preliminary plans have been approved by West Valley School District No. 208, Harold Griffith, superintendent, Route 4, Yakima, for a four-classroom addition to the Mountain View Elementary School, Yakima County. Plans by Cowan & Paddock, architects, Larson Bldg., Yakima, call for concrete block to match existing structure.
IG 11-4

RETIREMENT HOME— Yakima, Wash.
(Estimated cost $200,000 to $300,000)

A 22-acre tract between 37th and 40th streets just off Commonwealth Road in the Terrace Heights area in Yakima has been purchased as the site for a proposed retirement home. The project will be called Asbury Park.

Owner will be the Methodist Church, Rev. Owen Beadles, Pastor, Naches Ave. and E. A St., Yakima.

The proposed structure will house approximately 250 persons and will have a central dining room, several recreation rooms, general parlors, lobby, kitchen, and small infirmary. Residents will have small apartments but not kitchen facilities. Chairman of the board of trustees is Frank Stubbs, Larson Bldg., Yakima.
IG 11-4. Previous report 10-17

SCHOOL BUILDINGS (Showers, Dressing Rooms)— Yakima County, Wash.

Preliminary drawings have been approved by West Valley School District No. 208, Harold Griffith, superintendent, West Valley High School, Route 4, Yakima, for construction of a separate concrete block building for showers and dressing rooms to be connected to the gymnasium by a covered walkway for the Ahtanum Elementary School, and a similar building, constructed of brick, for the Wide Hollow Elementary School. Architects: Don Gochnour and Ed Marble, Miller Bldg., Yakima.

Bond issue for financing the buildings was passed September 9. The preliminary drawings wil be submitted to the State Board of Education after the bonds are sold.
IG 10-31

★HOTEL ADDITIONS— Yakima, Wash.

Award to W. M. Yeaman, 601 S. 1st, Yakima, $27,565, for remodeling and refurnishing the Trail Room of the Hotel Chinook, E. Yakima Ave., Yakima. At the October 29 bid opening, Harold Corpman, 1106 S. 14th Ave., Yakima, submitted a low basic bid of $22,222; but three alternates placed Yeaman in the position of low bidder. Architect is Thomas F. Hargis, Jr. A.I.A., and Clark Goldsworthy, associate, Miller Bldg., Yakima.
IG 11-8. Previous report 10-31

ELEMENTARY SCHOOL ADDITION—
Zillah, Wash.

The bond issue was approved November 4 for construction of a six-classroom addition to the elementary school in Zillah for Zillah School District No. 205, Milford T. Crawley, superintendent. Architects: Cowan & Paddock, Miller Bldg., Yakima.
IG 11-8. Previous report 8-29

IDAHO

COLISEUM— Boise, Idaho

A bond election will be held in the near future to provide funds for a new coliseum for Ann Morrison Memorial Park in Boise. Plans in preliminary stage. Architects: Hummel, Hummel & Jones, 1324 Idaho St., Boise; Wayland & Cline, 624 Idaho Bldg., Boise; Nat Adams and Associates, 325 Idaho Bldg., Boise; Dropping, Kelly & Finch, 2504 Kootenai, Boise.
GH 11-7

● DEPARTMENT STORE (Albertson's)—
Boise, Idaho

Sub contract bids are being received by general contractor, H. Halvorson, Inc., Yardley, Wash., on the one-stroy, 300'x122'; 36,600 sq. ft. Albertson's Department Store to be constructed on Washington St. between 16th and 17th streets in Boise. Plans were prepared by C. Ed Trout, A.I.A., architect, 1610 State St., Boise.

Solid masonry walls; concrete slab floor; steel girders; flat roof; frame partitions; aluminum windows; brick, block and porcelain enamel exterior finish on walls; drywall interior partitions; asphalt and vinyl tile flooring; acoustical ceilings; aluminum doors; rigid insulation in roof; unit heaters, gas fired; ventilating and air conditioning systems.
DM 11-12

GROCERY STORE (Safeway)—Boise, Idaho

Plans for construction of a new 11,000 sq. ft. Safeway store, to be located on the corner of Fairview and Storey avenues, Boise, have been announced by Safeway Stores, Inc., L. J. Oborn, Boise, district manager. Construction is expected to be underway before January 1. Total area purchased for the food store development is approximately 58,000 sq. ft. Parking facilities for 80 cars will be provided adjacent to the store building.
RC 11-7

TELEPHONE EXCHANGE BUILDING (Addition)— Boise, Idaho
(Estimated cost $453,000)

Construction is underway by Brennan Construction Co., Box 507, Pocatello, on an addition to the telephone exchange building in Boise for Mountain States Telephone and Telegraph Co., 218 N. Capitol Blvd., Boise.
RC 11-7

CHURCH (Immanuel Evangelical Lutheran)— Boise, Idaho

Architects Dropping, Kelley & Finch, 2504 Kootenai, Boise, have been retained by the building committee of Immanuel Evangelical Lutheran Church, 701 Fort St., Boise, to prepare plans for a new church.

The structure will be located on property at 711-715 Fort Street, adjacent to the recently constructed Sunday school building. The existing church building at intersection of Fort and 7th streets will be

left standing under present plans and will be used for a chapel and small services.

Building fund drive has been underway for some time. The goal is $100,000.

DC 11-11

●TELEPHONE BUILDING— Bonners Ferry, Idaho

Bids will be opened 2 p.m., November 20, in the office of the architect, Culler, Gale, Martell & Norrie, Realty Bldg., Spokane, Wash. for construction of a central office building at Bonners Ferry, Idaho.

One-story, 45'x56'; precast concrete panels.

DC 11-11

COLLEGE BUILDINGS (Auditorium and Chapel)— Caldwell, Idaho

Plans in preliminary stage for construction of an auditorium and chapel on campus of College of Idaho. Dr. Tom Shearer, president, Caldwell. Architects: Hummel, Hummel & Jones, 1324 Idaho St., Boise. GH 11-7

HOSPITAL REMODELING—Caldwell, Idaho

(Estimated cost $65,000)

Plans will be completed and bids called in January for an addition to and remodeling of the Caldwell Memorial Hospital at 300 E. Logan St., Caldwell, according to board of directors of the hospital. Architects are Hummel, Hummel & Jones, 1324 Idaho St., Boise.

Plans call for construction of a new addition to house classroom and laboratory and for remodeling the X-ray department in the existing building. Addition will be reinforced concrete and will have tile flooring and hot water heating.

DM 11-12. Previous report 11-1

DORMITORY— Coeur d'Alene, Idaho

Plans have been announced for construction of a men's dormitory at North Junior College in Coeur d'Alene. Announcement of an architect to design the structure will be made later by the Housing Committee of Coeur d'Alene. GH 11-8

HOSPITAL (Blaine County)— Hailey, Idaho

Plans by Wayland & Cline, architects, 624 Idaho Bldg., Boise, will be completed in February on the proposed new Blaine County Hospital to be erected at Hailey. Bids will be called in the spring by Blaine County Commissioners, Courthouse, Hailey.

A bond issue for $125,000 was approved earlier in the year which with matching funds from Hill Burton Act, will finance the project.

One-story, no basement, 11,000 sq. ft.; concrete footings and foundation; solid masonry walls; frame floors; concrete beams; mill, truss roof; masonry and frame partitions; aluminum windows; blanket insulation in roof. Finish construction involves brick with wood and metal trim in exterior walls, and plaster with wood trim on interior walls; plaster on gypsum lath partitions; rubber and ceramic tile flooring; plaster, acoustical ceilings; wood and steel doors; wood cabinets; fire doors; fluorescent and incandescent lighting; steam heating system, oil-fired; ventilating system in surgery, delivery and nursery rooms.

DM 11-11. Previous report 9-29

VFW HEADQUARTERS BUILDING— Idaho Falls, Idaho

A discussion was held at a recent meeting by Veterans of Foreign Wars Post 2146, 447 W. 16th St., Idaho Falls, Wendel McCracken, commander, on possible building sites or buildings for new headquarters for the Post. No decision has been made. GH 11-7

▲ELKS LODGE— Idaho Falls, Idaho

(Estimated cost $450,000)

Bids were rejected by Idaho Falls Elks Lodge No. 1087 for construction of a new lodge on Elva St. between Freeman and Wabash, south of the country club, in Idaho Falls. Proposals were opened September 30. Plans were prepared by C. A. Sundberg & Associates, architects, 111 E. 16th, Idaho Falls.

A contract not to exceed $457,000 has been negotiated. The contractor will be announced soon. GH 11-7. Previous report 9-25

JUNIOR COLLEGE— Idaho Falls, Idaho

Announcement has been made by the President of the LDS Church that Ricks College at Rexburg will be moved to Idaho Falls.

Ricks College will be rebuilt on a 160-acre site at the junction of Sunnyside Road and South Holmes Ave. in Idaho Falls. No timetable on construction of the project has been outlined as yet. DC 11-12

ARMORY— Jerome, Idaho

(Estimated cost $83,000)

Plans have been completed by Wayland & Cline, architects, 624 Idaho Bldg., Boise, on a one-story, no basement, 11,000 sq. ft., concrete armory for Idaho National Guard on the Jerome County fairgrounds in Jerome. When plans have been approved by Commission of Public Works, Arthur W. Warren, commissioner, Boise, bids will be called.

Concrete footings and foundation; concrete block walls; concrete floor; concrete columns; glued laminated beams and purlins, flat roof; frame partitions; steel windows; rigid insulation on roof; some stucco finish with wood trim on exterior; plaster interior wall finish with wood trim; exposed masonry and plaster on metal lath and gypsum lath for interior partitions; asphalt and ceramic tile flooring; plaster and acoustical ceiling with some exposed striated decking; wood interior and steel exterior doors; wood cabinets; blackboards; fluorescent and incandescent lighting; steam heating system gas fired.

DM 11-7. Previous report 9-13

COLLEGE BUILDING (Remodeling)— Moscow, Idaho

Working drawings have been completed by Wayland & Cline, architects, 624 Idaho Bldg., Boise, for remodeling the second and third floors of the south wing of the Administration Bldg. on the campus at University of Idaho, Moscow. Bids will be called in the near future by regents of the University of Idaho.

Remodeling on the two-story, 12,000 sq. ft. south wing will involve the following: frame, plaster on gypsum, lath partitions; asphalt, rubber and ceramic tile flooring; plaster, acoustical ceilings; wood and steel doors; wood cabinets; blackboards; fire doors; rigid insulation in partitions; fluorescent lighting. DM 11-11

HOSPITAL (University Student Addition)— Moscow, Idaho

Plans will be completed in January by Wayland & Cline, architects, 624 Idaho Bldg., Boise, on a 36-bed addition to the University Student Hospital on campus of University of Idaho, Moscow. Bids will be called at a later date by D. R. Theophilus, president of the University.

Poured concrete and solid masonry walls; concrete slab floor over open steel joists; concrete beams; flat roof; masonry partitions; concrete stairways; steel windows; rigid insulation in roof. Interior finishes include brick with cast stone trim on exterior walls, plaster with wood trim on interior walls; plaster partitions; asphalt, rubber and ceramic tile flooring; plaster, acoustical ceilings; wood and steel doors; wood cabinets; fire doors; fluorescent and incandescent lighting; ventilating system.

DM 11-12. Previous report 9-29

●DOORS— Mountain Home AFB, Idaho

Bids will be opened 11 a.m., November 21, by base procurement office, Mountain Home Air Force Base, for painting and installation of swing doors in the two mess halls on the base; IFB 10-603-59-25. Plans with above office. GH 11-7

LDS CHURCH— Rigby, Idaho

Working drawings are nearing completion by Jackson & Jackson, architects, 457 S. 3rd E., Salt Lake City, Utah, on construction of a 1st and 4th Ward chapel for LDS Church (main office 125 N. Main, Salt Lake City) in Rigby. General contractor is Lyle Peterson of Rigby. Sub-bids will be called soon. GH 11-8. Previous report 10-4

MONTANA

●BOILER— Bozeman, Mont.

Bids will be opened for the second time at 10 a.m., December 11, by State Board of Examiners, State Capitol Bldg., Helena, for installation of a boiler and piping at the Montana State College in Bozeman. Only one bid was received at the November 6 opening, and that was returned unopened according to law which requires more than one proposal. Plans may be obtained from G. L. Bryant, executive clerk, and from the state engineer, State Capitol Bldg., Helena.

Project covers installation of a new boiler, piping, valves, to accommodate a switch-over from coal-fired heating system to gas-fired.

LS 11-11. Previous report 10-23

★INSTALL SNOW SHELTERS— Columbia Falls, Mont.

Award to Aluminum Products, Inc., 32 1st Ave. W., Kalispell, $4,425, by Bureau of Reclamation, for furnishing and installing six snow shelters over front entrances of six-room houses; furnishing and installing fourteen snow shelters over front entrances of five-room houses; furnishing and installing twenty snow shelters over side entrances of five- and six-room houses, at Hungry Horse government camp, 8 mi. east of Columbia Falls, Flathead County, Mont.; Spec. No. 100C-342. Bids were opened September 11 by project superintendent, Hungry Horse. RM 11-7. Previous report 8-21

▲STEAM LINES— Cut Bank Radar Station, Mont.

A low bid of $19,647 was submitted by Teton Plumbing and Heating Co., Choteau, for installation of interior steam lines at the Cut Bank Radar Station. Bids were opened by procurement office at Malmstrom Air Force Base.

Other bidders were Pinski Bros., Great Falls, $31,416; Edwin Johnson Plumbing and Heating Co., Great Falls, $31,826; Cut Bank Plumbing and Heating Co., Cut Bank, $33,330.

DC 11-11

★MEDICAL CLINIC— Forsyth, Mont.

Award to Johnson Bros. and Pat Van Hale, Hysham, $36,500 by Dr. R. A. Whitney, owner, for construction of one-story 45'x49' medical clinic in Forsyth. Supervising architects are Loners, Stroebe & Johnson, 511 N. 31st, Billings.

Plans call for modular exterior wall panels, forced air heating; air conditioning.

EE 11-11

▲OFFICE BUILDING— Great Falls, Mont.

Bids were opened November 5 in office of Holland & Lund, architects, 500 2nd St. S., Great Falls, for construction of a 3,000 sq. ft., one-story and partial basement, with 58'x88' roof, office building for Morgan-Loftus Clinic (medical) and architect's office in Great Falls. LOW BIDS—GENERAL: H. S. Leigland & Sons, South of Great Falls, $84,500 (basic), $1,660 (Alt. 1, add), $200 (Alt. 2 deduct), $200 (Alt. 3 deduct), $375 (Alt. 6 deduct), $1,750 (Alt. 7 deduct), $750 (Alt. 8 add). MECHANICAL: Al's Plumbing and Heating, Conrad, $15,936. ELECTRICAL: Goggan & Pennie, 1106 Central Ave., Great Falls, $6,158. ROOFING: Pioneer Roofing Co., 313 9th N., Great Falls, $3,264 (basic), $125 (Alt. 4 deduct), $555 (Alt. 5 add). No awards were made. Curtain wall is being studied.

Other bidders were: GENERAL, Palmer Construction Co., 1324 Central Ave. W., Great Falls, $84,750, $2,100, $200, $114, $360, $2,000, $550; J. Jones Contractor, Inc., 3910 7th Ave., Great Falls, $87,640, $2,300, $210, $109, $330, $1,850, $630; Jack Lins, 1817 1st Ave. S., Great Falls, $92,335, $2,478, $150, $210, $420, $1,746, $550. MECHANICAL: Beigel Plumbing and Heating, Box 2047, Great Falls, $17,506; Edwin Johnson, 117 Central Ave., Great Falls, $18,117; Pinski Bros., 1020 Central Ave., Great Falls, $18,147; Mehl Plumbing, $19,110; Reber Plumbing and Heating, 3920 1st Ave. N., Great Falls, $19,119; Central Plumbing and Heating, 923 Central Ave. W., Great Falls, $19,300. ELECTRICAL: Rowe

Electric Co., 410 1st Ave. S., Great Falls, $6,246; Cascade Electric Co., 903 10th Ave. N., Great Falls, $7,994; Palmquist Electric Co., 607 Central Ave., Great Falls, $8,288. ROOFING: A. T. Klemens, 814 12th N., Great Falls, $3,493, $121, $505.

Poured concrete foundation; floor slabs; lightweight concrete thin-shellroof; insulated built-up roof; laminated fir beams; cavity-walls of brick and stone; aluminum entrance doors; aluminum curtain wall with porcelain enamel on insulated steel panels; composition floor covering; plaster, metal door frames; hot water heating system; unit ventilators; incinerator.

DM 11-7. Previous report 10-31

OFFICE BUILDING (Unemployment Compensation)— Helena, Mont.
(Estimated cost $500,000)

Plans will be completed in July of 1959 by Evans & LaMont, Box 1481, Billings, on a central office building for the Unemployment Compensation Commission of the State of Montana. The structure will be erected at 6th and Montana streets in Helena.

Plans call for four-story, 120'x55'; 33,000 sq. ft.; concrete pads; poured concrete walls; concrete floors, prestressed deck (twin tees); precast concrete beams (tentative); flat roof; masonry partitions; concrete stairway; aluminum or bronze windows (undecided); limestone and terra cotta exterior wall finish, plaster and marble interior wall finish; plaster on gypsum lath interior partitions; cork, ceramic tile, terrazzo and vinyl floor finish; plaster, acoustical ceilings; wood doors; fire doors; slim-line lighting fixtures; hot water heating system, gas fired; fans, duct for ventilating system; chilled water, fan, coil air condition system.

DM 11-12

HIGH SCHOOL— Joliet, Mont.
(Estimated cost $189,000)

Voters approved $189,000 bond issue on November 4 to provide funds for construction of a new high school in Joliet for Carbon County School District No. 7, Joliet. Drake & Gustafson, architects, Empire Bldg., Billings, have begun the working drawings for the structure.

EE 11-12. Previous report 10-21

★INSTALL PARTITIONS, PLUMBING— Kalispell, Mont.

Award to Gyrion Construction Co., 94 5th Ave., Kalispell, $904, by General Services Administration, 909 1st Ave., Seattle, Wash., for installing relite partitions and performing plumbing and electrical work in Room 241 of U.S. Post Office at Kalispell, Mont.; Proj. No. SEA-1157.

DM 11-12. Previous report 10-30

HIGH SCHOOL— Livingston, Mont.

A bond issue of $40,000 was approved on November 4 by voters in High School District No. 1, Park County, to purchase a site for a proposed new high school in Livingston. The site, on which the school district has an option, is located at the south end of Main St. in Livingston. EE 11-12

LABORATORY (Forest Fire)— Missoula, Mont.
(Estimated cost $900,000)

Plans may be completed early in December and submitted for approval in Washington, D.C. about December 15 by Fox, Ballas & Barrow, architects, Savings Center Bldg., and Witwer & Price, associate architects, 107 E. Main, Missoula, on a two-story, 32,000 sq. ft. U-shaped with partial basement, Northern Forest Fire Laboratory building. The structure will be located about seven mi. west of Missoula adjacent to Highway 10.

Building will include two wind tunnels, a combustion laboratory, facilities for research. Mechanical and electrical engineers: Bouillon, Griffith & Christofferson, 1411 4th Ave. Bldg., Seattle. Bids will be called early in the year by U.S. Forest Service, 1037 Federal Bldg., Missoula.

All construction details not yet decided, but present plans call for concrete footings and foundation; flat roof, some glu-lam beams; rigid insulation in roof; acoustical ceilings; concrete stairways; wood doors; fluorescent lighting; air conditioning; natural gas heating system.

DM 11-5. Previous report 10-29

★CHURCH ADDITION (Pella Lutheran)— Sidney, Mont.

Award to B. D. Ness, Box 151, Sidney, $64,074, for construction of an 18-room addition to the present Pella Lutheran Church, Sidney. The building will be of tan brick with a glass front, over 100' long, and will incorporate the former parsonage, a six-room home. Plans for the future include an addition to the east wing, not to be constructed at this time. Architects: Nordquist & Sundell, Shiloh Road, Billings.

RM 11-8. Previous report 10-29

●INCINERATOR— Sweetgrass, Mont.

Bids will be opened 3 p.m., P.S.T., November 25, by General Services Administration, public buildings service, 909 1st Ave., Seattle, Wash., for installation of incinerator in the U.S. Border Station at Sweetgrass, Mont.; Proj. No. SEA-1184. Plans with Seattle office. Completion time 45 calendar days. DM 11-7

ALASKA

■BUILDING ADDITION— Eielson AFB, Alaska

A second list of planholders has been issued on construction of an addition to Team 202 Bldg., at Eielson Air Force Base; ENG-95-507-59-25. Bids will be opened 2 p.m., A.S.T., November 18, by Corps of Engineers, Box 7002, Anchorage.

Planholders: W. D. Burk, Box 1618, Anchorage; Spero Electric, 20500 St. Clair Ave., Cleveland, Ohio; Consolidated Construction, Inc., Box 1583, Fairbanks; Nordin Construction Co., Box 1771, Fairbanks; Harold S. Smith & Son, 1831 Columbia Road N.W., Washington, D.C.; Home Industrial Sheet Metal Works, Box 4565, Anchorage; Morrison-Knudsen Co., Inc., Box 320, Anchorage; Chisum-Langlais, 2200 C St., Anchorage; Alaska Plumbing and Heating, Box 2119, Anchorage; Arctic Builders, Box 305, Fairbanks.

Moore & Mosley Construction Co., Box 1011, Fairbanks; Fleshman-Vehmeir, Box 1383, Fairbanks; Gordon R. Johnson Plumbing, Box 1558, Fairbanks; Northern Supply, Inc., Box 439, Anchorage; Whitney Bros. Plumbing and Heating, Box 926, Fairbanks; City Electric Service, Box 1367, Fairbanks; Burgess Construction Co., Box 1410, Fairbanks; Fairbanks Builders, Inc., 1446 Turner St., Fairbanks; Marinell & Campbell, Box 763, Fairbanks; Hodson Sheet Metal Co., 911 Cushman, Fairbanks; Arctic Insulation, Inc., Box 1757, Fairbanks; Chandler Plumbing and Heating, Inc., Box 534, Fairbanks; Leonard Shaunce Plumbing and Heating, Inc., Box 632, Fairbanks; Hall Electric Co., Inc., Box 1062, Fairbanks; Urban Plumbing and Heating, 2904 S.W. 1st, Portland, Ore.

S. S. Mullen, Inc., 3886 Terminal Annex, Seattle, Wash.; U.S. Associates, 524 White-Henry-Stuart Bldg., Seattle; Builders Hardware and Supply, 227 9th Ave. N., Seattle; Refrigeration Engineering Co., 1718 Broadway, Seattle; Grinnell Co., 3101 Elliott Ave., Seattle; Square D Co., Box 3745, Seattle; Alaskan Plumbing Supply Co., 907 Arctic Bldg., Seattle.

BUILDING ADDITION—40'x50', reinforced concrete addition connected by a common wall to existing structure; electrical work; fire alarm system; heating and air conditioning; fire protection; built-up roofing; connections to existing water, steam, electrical cold water and compressed air systems.

MISCELLANEOUS—Minor revisions to air conditioning system in existing building; asphaltic concrete paving.

DM 11-8. Previous report 10-30

▲PAINTING, FLOORING— Elmendorf AFB, Alaska

Bids were opened November 3 by base procurement office, Bldg. T22-057, Elmendorf Air Force Base for cleaning, painting, decorating and floor finishing in 220 family apartments at the base; IFB-65-501-59-44. BIDS: Warren Painting Co., 321 2nd, Anchorage, $70,801; Clark's Painting and Decorating, 720 Gambell, Anchorage, $83,039; Northwest Painting, 1418 I St., Anchorage, $88,775; J. W. Ryan, Chicago, Ill., $99,681. Government estimate $52,000.

AL 11-8. Previous report 10-15

▲OFFICE ADDITION— Elmendorf AFB, Alaska

Twelve bids ranging from a low of $384,211 by Chris Barg, Inc., 2730 Westlake Ave. N., Seattle, to a high of $470,000, were submitted November 7 to Corps of Engineers, Box 7002, Anchorage, for office structure modification at Elmendorf AFB involving architectural, mechanical and electrical construction to convert a 500-man barracks and heating plant into office space; ENG-95-507-50-2.

Other bids follow: W. R. Grasle Co., Box 143, Anchorage, $385,796; Patti-MacDonald Construction Co., Box 7-1634, Anchorage, $394,000; City Electric of Anchorage, Box 3698, Anchorage, $399,275; J. B. Warrack Co., Box 2080, Anchorage, $408,900; Western Construction Co., Inc., Box 2274, Anchorage, $412,600; Raber-Kief, Inc., 5934 4th S., Seattle, $439,850; Modern Electric, Inc., Spenard, $449,176; Allen Electric, Anchorage, $449,976; H. E. Mills Electric, Bellingham, Wash., $461,000 and an identical bid by The Tide Company of Tacoma, Tacoma, $461,000; Inlet Construction Co., Anchorage, $470,000. Engineer's estimate $752,627.

Completion time 240 days. Work includes conversion of barracks and heating plant to provide room partitions, air conditioning and electrical lighting, distribution and generating systems. The air conditioning system requires six 20-ton liquid chillers, three condensers, eight air conditioners, associated pumps, piping and duct work.

The electrical system, indoor and aerial will distribute three-phase power to 14 panelboards, five transfer switches and motor control center. Two 350 kva diesel generators, switchgear and mechanical auxiliaries will replace the existing equipment. A 300 kva pole-mounted transformer substation will feed power to the heating plant. Approximately 1,000' of expanded metal cable tray are to be installed in the converted barracks.

DM 11-11. Previous report 11-5

●HOSPITAL— Kotzebue, Alaska

Bids will be opened 2 p.m., M.S.T., January 8, in the office of the Bureau of Indian Affairs, Geology Bldg., University of New Mexico, Albuquerque, New Mexico, for construction of a 50-bed general hospital at Kotzebue, Alaska; Proj. No. ABU-PH-7. Plans may be obtained from Virgil R. Farrell, Seattle liaison office, Bureau of Indian Affairs, 107 Federal Office Bldg., 909 1st Ave., Seattle, Wash. Drawings and specifications must be returned to the B.I.A. Terminal, Pier 39, Seattle, after opening of bids. Certified or cashier's check 5%.

Plans are on file for examination at area office, Box 741, Anchorage; area office, Room 603, Lincoln Bldg., 208 S.W. 5th, Portland, Ore., and branch of plant design and construction, B.I.A., 3005 Central N.E., Albuquerque, New Mexico.

Description of Work—Total floor area of approximately 56,200 sq. ft., which will include a one-story hospital building with two penthouses; a one-story service wing; a two-story hospital building with two penthouses; a one-story service wing; a one-stroy duplex apartment with full basement; a two-story, 20-unit apartment building with full basement.

General Construction — Hospital, steel frame with insulated metal roof deck, reinforced concrete floors, wood studs, plasterboard partitions, cement-asbestos wall covering over insulated exterior walls, hot water heat. Hospital operating room and delivery room, air conditioned; forced ventilation main kitchen and dishwashing; gravity ventilation elsewhere. Duplex apartment, frame construction. 20-unit apartment building similar to hospital except main floor and second floor, wood over steel bar joists. Concrete walks, gravel drives, and all utilities included. DM 11-12

▲ALUMINUM DOOR— Wrangell, Alaska

Robert F. Greene, Box 189, York, Neb., $2,650, submitted only bid received on November 5 by General Services Administration, 909 1st Ave., Seattle, Wash., for installing aluminum entrance door and frame (with transom) and replacing the wood sill in the north window in Room 203 of U.S. Post Office and Customs House in Wrangell, Alaska; SEA-1212.

CA 11-7. Previous report 10-9

ENGINEERING NEWS

Oregon, Washington, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

■**DREDGING—** **Bonneville, Ore.**

Additional planholders announced for dredging in the Bonneville pool to provide a channel 300' wide and 7,000' in length to elevation 42.0' mean sea level, and disposal of material; CIVENG-35-026-59-63. Bids will be opened 2 p.m., P.S.T., November 18, by Corps of Engineers, 628 Pittock Block, Portland.

Additional planholders: Wescon, 246 N. Fries Ave., Wilmington, Calif.; J. Rodney King, 110 W. Market St., Georgetown, Delaware.

Site of the work is in Columbia River between Vancouver, Wash., and The Dalles, Ore., between river miles 173 and 174, opposite Eighteen Mile Island. Completion time April 30, 1959. Quantities: 458,000 c.y. dredging and disposal of materials.

WB 11-8. Previous report 10-30

COUNTY ROADS— **Hillsboro, Ore.**

Voters of Washington County defeated a $300,000, five-year tax levy, which was to provide funds for construction and maintenance of county roads. WB 11-8

■**SEWAGE TREATMENT PLANT, PUMPING STATIONS—** **Hillsboro, Ore.**

Planholders announced for construction of a secondary sewage treatment plant and two pumping stations for Hillsboro. Bids will be opened 8 p.m., P.S.T., November 24, by City Council, City Hall, Hillsboro. Plans with city engineer, City Hall, Hillsboro, or with Stevens & Thompson, consulting engineers, 2234 S.W. 5th, Portland (Box 508). $50 deposit.

Planholders: Lee Hoffman, 415 N.W. Cedar St., Beaverton; L. B. Read, 2607 S.W. Sunset Blvd., Portland; Lord Bros., Box 5697, Portland; George W. Lind, 5000 N.E. Killingsworth St., Portland; Phoenix-Matthews Co., Inc., 1040 N.E. Baldwin, Portland; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland; Fruin-Colnon, 48 Park Road, Burlingame, Calif.; C. M. Corkum Co., 2830 S.W. 2nd Ave., Portland; Max J. Kuney Co., N. 120 Ralph St., Spokane; Gene Settergren, 1625 S.E. Woodward St., Portland; Packard Pipe & Pump Co., 554 14th Ave., Longview, Wash.

WB 11-12. Previous report 10-22

★**PAVING—** **Klamath Falls, Ore.**

Award to Pinniger & Watkins Construction Co., 1430 Klamath Ave., Klamath Falls, on low bid of $4,109, by Harry F. Keating, purchasing and contracting officer, 408th Fighter Group, Kingsley Field, for construction of a driveway and foundation and installing of a Government-furnished CO-2 steel tank at Kingsley Field, Klamath Falls. Bid No. 59-13. Bids opened November 5.

Only other bidder: Ott-Atwater Construction Co., P.O. Box 368, Klamath Falls, $4,867.

ZZ 11-12. Previous report 10-31

★**BANK PROTECTION—** **Marion County, Ore.**

Award to Floyd Grahm Construction Co., Box 215, Lebanon, $56,356, by Corps of Engineers, 628 Pittock Block, Portland, for repair and reconstruction of bank protection works at Tomasek location along the right bank of the Santiam River about three mi. northwest of Jefferson, Marion County, a Willamette River Basin Project, Ore.; CIVENG-35-026-59-64.

WB 11-7. Previous report 11-4

★**WATER WELL—** **Lane County, Ore.**

Award to only bidder, Carter's Drilling & Pump Service, Springfield, $1,637, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland (Box 4137), for deepening the existing water well at the Blue River Ranger Station on the Willamette National Forest, Lane County, Ore.; Bid No. R6-59-134. Bids opened November 4. WB 11-12. Previous report 11-6

●**SEWER—** **Milton-Freewater, Ore.**

Bids will be opened 2 p.m., November 21, by City Council, City Hall, Milton-Freewater, for construction of an industrial sewer to serve companies in the area. Specifications may be obtained from city engineer, City Hall. $30 deposit. Certified check, cashier's check or bid bond 5%.

Quantities: 5,056' of 21", 6,042' of 18", 3,060' of 15" pipe; 1,150 c.y. cutting and replacing oil paving; 2,300 sq. yd. cutting and replacing asphalt paving; 10,000 c.y. unclassified excavation; 36 manholes; 1,500 c.y. pipe bedding material; 800 c.y. crushed gravel.

The work will be financed by property assessment and cash payments from the benefitting industries. DC 11-12

●**TRUNK SEWER, SIPHON—** **Oswego, Ore.**

Bids will be opened 7:30 p.m., November 18, by Mary Beerman, city recorder, City Hall, Oswego, for construction of a sanitary trunk sewer in South Oswego for L.I.D. No. 14, and for sewer facilities consisting of a combined trunk and siphon in the vicinity of the sewage disposal plant in Oswego. Separate bids on the two projects. Plans with recorder. $10 deposit each project. Plans for the combination trunk and siphon work by William J. Dorner, consulting engineer, 429 S.W. 4th Ave., Portland.

SOUTH OSWEGO TRUNK SEWER—Located along Pacific Highway and Ash St. Quantities: 2,400 c.y. common excavation; 150 c.y. rock excavation; 590' of 12", 1,800' of 10" and 960' of 8" concrete sewer pipe; 21 precast manholes; 360' of 12" steel pipe to be suspended from Pacific Highway Bridge.

TRUNK SEWER, SIPHON—Quantities: 220' of 8" concrete sewer pipe on wooden trestle; 220' of 10" cast iron pipe; 36' of 16" fabricated steel pipe; 242' of 18" concrete cylinder pipe on concrete pedestals; 20 c.y. of reinforced concrete for special diversion manhole and structure at the sewage treatment plant. WB 11-7

WATER IMPROVEMENTS— **Oswego, Ore.**

Bond issue for $300,000 approved in the November 4 election by City of Oswego, Lee Stidd, Jr., mayor, City Hall, Oswego, for repairs and a reservoir for the city water system. WB 11-12

●**MOTOR TRUCK SCALE—** **Portland, Ore.**

Bids will be opened 2 p.m., November 19, by City Purchasing Agent, 208 City Hall, Portland, for a motor truck scale for Bureau of Sewage and Refuse Disposal. Certified check or bid bond 10%. WB 11-7

●**BRASS GOODS—** **Portland, Ore.**

Bids will be opened 2 p.m., November 19, by City Purchasing Agent, 208 City Hall, Portland, for furnishing brass goods to Bureau of Water Works. Certified check or bid bond 10%. WB 11-7

★**TENNIS COURTS—** **Portland, Ore.**

Awards to Zuber Bros., 3600 S.E. 28th Ave., Portland, $34,600 (concrete work), and to Cyclone Fence Dept., U.S. Steel Corp., 400 N.E. 11th Ave., Portland, $13,043 (fencing), by City Purchasing Agent, 208 City Hall, Portland, for tennis courts at Berkeley, Glenhaven and Essex parks, and at Playground No. 127.

WB 11-7. Previous report 10-28

▲**CONCRETE RESERVOIR— Portland, Ore.**

Twelve bids ranging from a low of $27,853, by Multnomah Road & Concrete Co., 1417 S.E. 122nd Ave., Portland, to a high of $41,910, submitted November 3, to Mt. Scott Water District, Donald C. Meng, secretary, 12915 S.E. King Road, Portland, for construction of a 500,000-gal. circular covered reinforced concrete reservoir in Clackamas County. Plans by Elden W. Carter, consulting engineer, 1207 Portland Trust Bldg., Portland.

Other bids were: A. C. Edmon, 4120 S.E. Gladstone St., Portland, $29,664; Clackamas River Construction Co., Box 109, Oregon City, $32,253; Zuber Bros., 3600 S.E. 28th Ave., Portland, $34,455; Charles R. Schmiedeskamp, 1008 S.W. 6th Ave., Portland, $35,337; Teeples & Thatcher, 8850 S.E. Otty Road, Portland, $35,812; L. B. Read, 2607 S. W. Sunset Blvd., Portland, $35,990; Charles S. Camplan, 2035 S.W. 58th Ave., Portland, $36,548; James G. Robertson, Route 1, Box 385A, Clackamas, $37,600; Schrader Construction Co., 3621 S.E. 52nd Ave., Portland, $41,000; E. E. Settergren, 3723 S.E. 21st Ave., Portland, $41,860; George W. Lind, 5000 N.E. Killingsworth St., Portland, $41,910.

WB 11-8. Previous report 11-6

■**DREDGING CHANNEL— Portland, Ore.**

Planholders announced for dredging a channel in the Columbia River 300' wide and 27' deep, 900,000 c.y., and disposing of all excavated material, between Vancouver, Wash., and The Dalles, Ore.; CIVENG-35-026-59-70. Bids will be opened 2 p.m., P.S.T., November 25, by Corps of Engineers, 628 Pittock Block, Portland. Completion time, April 30, 1959.

Planholders: Port of Portland, Box 4099, Portland; General Construction Co., Box 3860, Portland; Port of Astoria, Box 569, Astoria; Utah Dredging Co., 1702 Bridgeway Blvd., Sausalito, Calif.; Peter Kiewit Sons Co., Box 1777, Vancouver; Western Contracting Corp., 400 Benson Bldg., Sioux City, Iowa. WB 11-8. Previous report 10-31

★**REMODEL FIRE TRUCKS—Portland, Ore.**

Award to Wentworth & Irwin, Inc., 123 N.E. Oregon St., Portland, $7,350, by City Purchasing Agent, 208 City Hall, Portland, for making and installing on contractor's premises manifolds with necessary gates and fittings, and remodeling of hose beds on three city-owned fire trucks. Bids opened October 15. WB 11-11. Previous report 10-4

★**PORTLAND CEMENT— Portland, Ore.**

Award to Dealers Supply Co., 129 S.E. Alder St., Portland, at unit prices quoted, by City Purchasing Agent, 208 City Hall, Portland, for furnishing domestic Portland cement to all city departments and bureaus for calendar year 1959. Bids opened October 20. WB 11-11. Previous report 10-4

★**PAVEMENT BREAKER— Portland, Ore.**

Original award to Western Equipment Co., 2244 N.W. Savier St., Portland, for their alternate bid, $6,868, rescinded by City Purchasing Agent, 208 City Hall, Portland, for self-propelled, gasoline-powered, pneumatic-tired pavement breaker. Award has now been made for their prime bid, $6,792.

WB 11-11. Previous report 10-22

▲**CRAWLER TYPE TRACTOR— Portland, Ore.**

Three bids ranging from a low of $3,375, by Hessler Tractor & Equipment Co., 139 S.E. Morrison St., Portland, to a high of $4,213, received November 7, by City Purchasing Agent, 208 City Hall, Portland, for small crawler type tractor, with angle dozer, for Bureau of Parks.

Other bids: Willamette Equipment Co., Inc., 2105 S.E. 7th Ave., Portland, $3,550; Oregon Tractor & Equipment Co., 418 S.E. Harrison St., Portland, $4,213.

WB 11-11. Previous report 10-28

▲**TAPPING SLEEVES, VALVES; PIPE— Portland, Ore.**

Bids received November 6, by City Purchasing Agent, 208 City Hall, Portland, for mechanical joint and caulk type tapping sleeves and valves to match, and 1,000' of 12" mechanical joint cast iron water pipe,

for Bureau of Water Works. BIDS—SLEEVES, VALVES: Consolidated Supply Co., 2300 N.W. 26th Ave., $8,108; Utilities Supply Co., 7830 N.E. Halsey St., and Waterworks Supplies Co., 4455 S.E. 24th Ave., each bid $8,492; Pacific Water Works Supply Co., 0440 S.W. Porter St., $8,765. PIPE: Pacific States Cast Iron Pipe Co., Portland Trust Bldg., $6,590; U. S. Pipe & Foundry Co., Coleman Bldg., Seattle, $6,710. Of Portland except as noted.

WB 11-11. Previous report 10-28

★ELECTRICAL WORK— Portland, Ore.

Award to Teeples & Thatcher, 8850 S.E. Otty Road, Portland, $43,900, by Commission of Public Docks, 3070 N.W. Front Ave., Portland, for installation of an electrical metering and switching service rack, six manholes, four handholes and approximately 2,340' of underground duct line.

The duct line will consist of one to nine 4" conduits, part of which are encased in a concrete envelope.

WB 11-11. Previous report 11-5

HYDROELECTRIC FACILITIES— Portland, Ore.

A measure to allow the City of Portland to install power generating facilities in the water system dams on the Bull Run reserve near Mt. Hood was defeated in the November 4 election.

WB 11-12. Previous report 9-13

WILLAMETTE RIVER BRIDGE— Portland, Ore.

Bond issue for $7,000,000 defeated by voters of Multnomah County, Jack Bain, chairman of county commissioners, Portland, for construction of a three-lane bridge parallel to the Ross Island Bridge across the Willamette River.

WB 11-12. Previous report 9-13

★AERATOR— Portland, Ore.

Award to Western Golf Course Supply Co., 1006 S.E. Hawthorne Blvd., Portland, $769, by City Purchasing Agent, 208 City Hall, Portland, for gasoline-powered golf course greens aerator. Bids opened October 21.

WB 11-12. Previous report 10-8

★RIVER RUN GRAVEL— Portland, Ore.

Award to Pacific Building Materials Co., 3510 S.W. Bond St., Portland, at unit prices quoted, by City Purchasing Agent, 208 City Hall, Portland, for furnishing river run gravel for all departments and bureaus for the calendar year 1959. Bids opened October 27. WB 11-12. Previous report 10-10

★REINFORCING STEEL— Portland, Ore.

Award to Mercer Steel Co., Inc., 2636 N.W. 26th Ave., Portland, at unit prices quoted, for furnishing reinforcing steel for the calendar year 1959. Award by City Purchasing Agent, 208 City Hall, Portland. Bids opened October 27. WB 11-12. Previous report 10-10

★PAVING ASPHALT, ASPHALTIC ROAD OILS— Portland, Ore.

Award to Union Oil Co. of California, Yeon Bldg., Portland, at unit prices quoted, by City Purchasing Agent, 208 City Hall, Portland, for paving asphalt and asphaltic road oils for calendar year 1959. Bids opened October 17. WB 11-12. Previous report 10-4

●POWER AND AUTOTRANSFORMERS (BPA)— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., December 5 by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing and delivering one power transformer and five autotransformers to various locations; Inv. No. 8903. Specifications with above office. DM 11-12

CAPITAL IMPROVEMENTS—Portland, Ore.

Voters of the City of Portland, Terry Schrunk, mayor, Portland, defeated a $39,555,000 capital improvements program at the November 4 election. Funds would have been derived from a ten-year tax levy for $25,250,000, and a bond issue for $16,530,000.

The program included sewer repair, sewage disposal, parks, traffic controls, street lighting, equipment, Civil Defense, land acquisition, overpasses and interchanges, and buildings.

It is expected that a special election will be held in May to seek approval of the sewage disposal portion of the program. The City has been ordered by the State Sanitary Authority to abate pollution in the Willamette and Columbia rivers by sewage wastes.

WB 11-8. Previous report 8-29
(Also 10-2, Sewers, Treatment Plant)

●TRACTOR— Talent, Ore.

Bids will be opened 2 p.m., M.S.T., November 21 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing crawler tractor and auxiliary equipment, fob Talent, Ore.; Inv. No. (d) 20,029-A. Specifications with Denver office. DM 11-11

▲CHANNEL, LEVEE—Umatilla County, Ore.

Bids were opened November 6 by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, Wash., for construction of channel and levee at Umatilla River, Umatilla County, vicinity of Pendleton, Ore.; CIVENG-45-164-59-19. Completion time 270 calendar days.

Quantities: 25 acre clearing, grubbing; 11 acre foundation preparation; 14,000 c.y. bank excavation (existing work); 85,000 c.y. bank excavation (new work); 112,000 c.y. channel excavation; 350 c.y. structural excavation, common; 12 c.y. structural excavation, rock; 75,000 c.y. embankment; 6,800 c.y. dumped riprap (existing); 21,700 c.y. dumped riprap (new); 2,600 c.y. gravel blanket; 110 c.y. portland cement concrete; 7,000 lb. steel reinforcing; 58' of 60" corrugated metal pipe culvert, bituminous coated; install 92' of government furnished, 24" corrugated metal culvert pipe.

LOW BIDS: K. C. Dack Construction Co., Box 642, Pendleton, Ore., $174,412; Harbart Bros., Estacada, Ore., $220,148; John L. Jersey Co., Portland, Ore., $242,573. HI: Floyd R. Grubb, Salem, Ore., $560,856. Government estimate $345,627.

DM 11-7. Previous report 10-29

WASHINGTON

AIRPORT (Seal Coat, Drainage)— Bellingham, Wash.

Construction is expected to be underway next spring and summer on two Bellingham airport jobs, 1—applying seal coat to the runway and 2—rebuilding drainage gutters along the runways. About $42,850 in funds from the port and Federal government will finance the work.

Application for Federal matching funds for the two projects was made to the Civil Aeronautics Administration last spring. The CAA approved the money to aid in applying the seal coat (a mixture of molten asphalt and sand) to the runways, but the application for rebuilding the gutters had been denied, but more recently granted. ET 11-5

DIVERSION TUNNEL— Bellingham, Wash.

A bid call is expected by early December by John W. Cunningham & Associates, consulting engineers, 1112 Portland Trust Bldg., Portland, for a 9,000' horseshoe section tunnel, 8½'x8½', from the site of the future diversion dam on the Middle Fork of the Nooksack River, to Mosquito Lake flats. The tunnel will be constructed through Bowman Mountain, and will be concrete lined approximately one-fourth of the distance. Bids will be called by the Bellingham Water Board, City Hall, Bellingham.

Bids on the dam will be called after the tunnel construction is underway. The project also includes a 9½-mile pipe line to Mirror Lake. WB 11-11. Previous report 10-4
(Pipeline, Diversion Dam)

BOAT RAMPS— Bellingham, Wash.

Four port, county and city-operated pleasure boat launching ramps from Blaine to Bellingham's Yacht Club, were suggested during a recent meeting of the Bellingham Propeller Club. Port-financed ramps would be in Blaine and at Squalicum Fill. The city might finance one at the foot of Cornwall Avenue, near the Yacht Club, and the county might finance one on Hales Passage, the club committee suggested.

President Al Brazas asked for more study and details on the proposals, particularly cost, and urged that a definite recommendation be outlined at the November meeting. Again he noted the need for such launching facilities in this pleasure-boating area, pointing out that only one ramp had been considered when the committee study was appointed. ET 11-11

PUMPING PLANT— Beverly, Wash.

Bids will be called soon by Bureau of Reclamation on construction of the Sand Hollow pumping plant northeast of Beverly.

Project involves construction of an 81.5'x 27' building with concrete sub-structure and structural steel superstructure; installation of four motor-driven pumping units, three with 51 cfs capacities and one with 25 cfs capacity with total heads of 65'; electrical control equipment; about 700' of 66" inside-diameter concrete discharge pipe and concrete outlet transition. DM 11-6

★FURNISH PUMPING UNITS— Beverly, Wash.

Award to Allis-Chalmers Manufacturing Co., Denver, Colo., $69,415, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering three motor-driven, horizontal, centrifugal type, pumping units for Sand Hollow Pumping Plant, Columbia Basin Project; DS-5095. The original delivery was stated for Beverly, but changed in an addendum to Oothello, Wash.

DM 11-11. Previous report 9-20

▲GRADING— Chelan County, Wash.

Listed below are the sixteen bids received November 5 by Bureau of Public Roads, 824 Morgan Bldg., Portland, for grading 2.889 mi. on Sunset Highway, Wenatchee National Forest, Chelan County, Wash.; FHP 9-A13. BIDS: Goodfellow Bros., Inc., Box 598, Wenatchee, $589,327; P. J. Anderson & Sons, 12501 Aurora Ave., and Stoen Construction Co., 2210 E. 95th, both Seattle, (joint venture), $608,100; Commercial Iron Works, Inc., 3020 S.E. Grand Ave., Portland, $626,360; Strong & Macdonald, 4045 Ruston Way, Tacoma, $704,662; Herman Kathman and Einar Carlson, Box 555, Kenmore, $709,701; Miller & Hutchins, 100 Grant Smith Road, Roseburg, $758,307; C. E. Oneal, Inc., Ellensburg, $767,063; Max J. Kuney Co., N. 120 Ralph, Spokane, $829,769; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle, $831,484; Charles T. Parker Construction Co., 219 Builders Exchange Bldg., Portland, $890,917; Erickson Paving Co., 14446 Sunset Highway, Bellevue, $917,900; Erland & Blickle, 2865 N. Borthwick, Portland, $934,596; Osberg Construction Co., 1132 N. 128th St., Seattle, $957,700; J. W. Hardison Co., Box 48, Yakima, $1,030,333; S. W. Groesbeck, Box 646, Eugene, Ore., $1,059,439; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle, $1,147,362. Engineer's estimate, $699,302.

WB 11-7. Previous report 11-6

★GRADING— Chelan County, Wash.

Award to Goodfellow Bros., Inc., Box 598, Wenatchee, $591,847, by Bureau of Public Roads, 824 Morgan Bldg., Portland, Ore., for grading 2.889 mi. on Sunset Highway, Wenatchee National Forest, Chelan County, Wash.; FAP 9-A13. (The figure previously reported for Goodfellow Bros. was that read at the bid opening. The above is the corrected total.) WB 11-8. Previous report 11-6

FLOOD CONTROL— Colfax, Wash.

A bond issue of $100,000 for preliminary work on a flood control project near Colfax apparently was defeated by a narrow margin on November 4. Absentee ballots could affect the outcome. The preliminary work was expected to result in the U.S. Corps of Engineers possibly going ahead with a multi-million dollar job of flood control work on the Palouse River to safeguard Colfax. The proposed work involves concreting the channels of both North and South Forks of the Palouse through most of the city of Colfax and channeling Spring Creek flat in the south end of the city.

This is the second time this year that voters have rejected the proposal.
MH 11-7. Previous report 10-4

★SEWER— Coupeville, Wash.

Award to Snelson Plumbing and Heating Co. 506 W. State, Sedro-Woolley, $51,898 by Town Council, Town Hall, Coupeville, for construction of lateral sewers, sewage force main and sewage pump station in Prairie Center LID. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.

Eight bids were received at the November 3 bid opening.

The sewers will become an integral part of the town's sanitary sewer system. Quantities: 4,050' of 8" pipe sewer; 3,415' of 4" sewer force main; 16 standard manholes; one sewage lift station.
DM 11-12. Previous report 11-5

■TIDE BOX, REVETMENT—
Cowlitz County, Wash.

Additional planholders announced for removing existing tide box and steel sheet pipe cut-off wall, constructing new four-barrel 72" corrugated metal pipe tide box with automatic drainage gates, pile holddowns, concrete gate well with circular slide gates, drift sheer boom and trash screens, dumped stone revetment, excavating inlet and outlet channels, at Cowlitz Consolidated Diking Improvement District No. 1; CIVENG-35-026-59-58. Bids will be opened 2 p.m., P.S.T., November 13, by Corps of Engineers, 628 Pittock Block, Portland.

Additional planholders: Gabriel Boiler & Fabrication Co., 1428 N.W. 14th, Portland; Teeples & Thatcher, 8850 S.E. Otty Road, Portland; General Construction, Box 3845, Seattle; J. D. Dutton, Route 6, Box 327-D, Olympia; Smith Bros., 3801 4th Plain, Vancouver; John Havlik, Scappoose, Ore.; Parker Construction Co., Route 7, 1100 N.E. 134th St., Vancouver; H. & F. Construction, 410 S. 23rd Ave., Yakima.
WB 11-7. Previous report 10-31

▲SPRINKLER SYSTEM—
Deep Creek AFS, Wash.

Bids were opened November 6 by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for installation of sprinkler system containing about 52 sprinkler heads in Structure S, installation of water supply line and post indicator at Deep Creek Air Force Station, Wash.; ENG-45-108-59-20. Completion time 90 calendar days.

ONLY BIDS: Grinnel Co. of Pacific, Spokane, $4,565; Senna Service, Inc., Spokane, $3,491. Government estimate, $7,310.
DM 11-7. Previous report 10-28

LATERAL MODIFICATIONS—Eltopia, Wash.

Bids will be called in the near future by Bureau of Reclamation on earthwork and structures for about 2,000' of lateral extension in Block 16, construction and modification of structures and raising about 2,300' of lateral bank in Blocks 15 and 19 near Eltopia.
DM 11-7

PUMPING PLANT, TRANSMISSION LINES— Ephrata, Wash.

Bids will be called soon by Bureau of Reclamation for construction of indoor-type Radar pumping plant and a 115kv tap line, south of Othello, Columbia Basin Project, Wash.

Work will involve construction of the pumping plant with a reinforced concrete substructure, a superstructure of structural steel frame with insulated metal panel siding; a crane runway for a 15-ton traveling crane; installation of five electrically-driven, horizontal pumping units of 146cfs total capacity, making provision for a future installation of four electrically-driven horizontal pumping units of 241cfs total capacity; construction of a 115 kv tap line from the Bonneville Power Administration Scooteney-Eagle Lake 115 kv line about 2.5 mi. to the pumping plant.
DM 11-6

★PARKING AREA— Ephrata, Wash.

Award to Knapton & Yearout, Mounted Route, Moses Lake, $10,422, by Bureau of Reclamation, Division Ave. and C St. N.W., Ephrata, for construction of additional parking area for project headquarters office building in Ephrata; Spec. No. 117C-520.

Work involves removing existing buildings, filling excavations, grading, placing 4" base course, asphaltic paving, concrete sidewalks; drains and railing.
DM 11-11. Previous report 10-17

★EARTH LINING— Ephrata, Wash.

Award to L. D. Shilling Co., Inc., Box 1637, Moses Lake, $71,287, by Bureau of Reclamation, Division and C St. N.W., Ephrata, for construction of 2.3 mi. of compacted blended earth lining in the existing EL 85 and EL 85CC1 laterals, Block 18; Spec. No. 117-518.

Quantities: 88,080 c.y. excavation; 54,000 mi. cu. yd. overhaul; 53,000 c.y. compacted blended earth lining; 7,200 c.y. refill above lining; 90 c.y. excavation and refill inspection trenches; 120 c.y. riprap; 40 c.y. sand and gravel bedding for riprap; 30 c.y. coarse gravel protection; 9 c.y. concrete; 14 bbl. cement.
DM 11-11. Previous report 10-15

●ROCK RIPRAP— Everett, Wash.

Bids will be opened 10 a.m., November 17, by Snohomish County Commissioners, Courthouse, Everett, for placing 2,000 c.y. rock riprap on left bank of North Pass, Stillaguamish River and 2,200 c.y. on right bank; 2,375 c.y. dirt fill in Sections 25 and 26, Township 31, North, Range 3 East W.M. on Leque Island and the Ovenell - Wheeler Project. The work is under River Maintenance Agreements No. 156-58 and 158-58. Specifications with Soil Conservation district office in Snohomish. $2 deposit. Certified check 5%.
HH 11-8

● CONCRETE HEADWALLS—Everett, Wash.

Bids will be opened 3 p.m., P.S.T., December 16, by Bureau of Indian Affairs, Portland Area Office, Land Operations Branch, 1001 N.E. Lloyd Blvd., (Box 4097), Portland, for construction of concrete headwalls for sea gates through Lummi Dike, Lummi Dike Project, Western Washington Indian Agency, Everett, Wash.; Inv. LO 59-41-12-16. Plans available after November 25 from Portland office.

Main items of work are two reinforced concrete headwall (approximately 50 c.y.), and one 6'x8' flap gate.
WB 11-12

AIRPORT PAVING—Fairchild AFB, Wash.

Bids will be called soon for opening early in December by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for strengthening (rigid paving) runway access taxiway at Fairchild Air Force Base; ENG-45-108-59-28. Plans with Seattle office. Bid bond 20%. Completion time 270 calendar days.

Work consists of removal of about 212,000 sq. yd. of asphaltic concrete pavement and about 1,300 sq. yd. of portland concrete pavement; excavation of approximately 255,000 c.y. common material; construction of fills and base course; construction of approximately 60,000 c.y. portland cement concrete pavement and approximately 25,000 ton asphaltic concrete pavement; construction of incidental storm drain system; alteration of underground steam lines; modification of fuel lines; installation of water lines; modification of sanitary sewer system; construction of approximately 4,300' of concrete encased duct banks; installation of underground electrical cables and incidental work.
DM 10-30

AIRPORT PAVING, LIGHTING—
Fairchild AFB, Wash.

Bids will be called soon for opening early in December by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of two airfield runway overruns approximately 1,000' long and 300' wide, and for installation of airfield lighting at Fairchild Air Force Base; ENG-45-108-59-30. Plans with Seattle office. Completion time 240 calendar days.

Quantities: 20,000 sq. yd. bituminous and portland cement paving; 300,000 c.y. excavation; 59,000 c.y. placement of select fill; 23,000 c.y. subbase and base course materials; 3,200 c.y. portland cement concrete pavement; 1,300 ton asphaltic concrete pavement; 1,300 ton double bituminous surfacing; 9,000' storm drain lines involving pipe sizes from 6" to 72"; installation of overrun threshold airfield lighting for each overrun.
DM 11-4

★STREET SWEEPER— Ferndale, Wash.

Award to Feenaughty Machinery Co., Inc., 1028 6th S., Seattle, $1,550, by City Council, City Hall, Ferndale, for furnishing the city with a used street sweeper. Bids were opened November 5.
ET 11-11

WHITE SALMON RIVER HYDROELECTRIC PROJECT— Goldendale, Wash.

(Estimated cost $48,500,000)

Funds in amount of $225,000 have been received by Klickitat County Public Utility District No. 1, Goldendale, from the Community Facilities Administration, to expedite planning for a proposed hydroelectric project on the White Salmon River.

Preliminary plans call for two storage dams in the upper river basin at the foot of Mt. Adams with a total of 83,000 acre feet. This storage of flood waters would be the key to a series of five downstream power houses and one power house between the two reservoirs. Six power houses would range in capacity from 13,000 to 48,000 kw of installed capacity and could develop 625,000,000 KWH of firm energy annually in a minimum water year.

The PUD would propose to negotiate with Pacific Power and Light Co. for the Condit power plant which was built in 1912, at the lower end of the river, and reconstruct this plant to fit the increased potential of the river.

The river would be developed in two stages with an estimated total cost of $48,500,000 to be financed by sale of revenue bonds.

President of Public Utility District No. 1 of Klickitat County is L. E. Darland, Goldendale.

The project would be located specifically in Klickitat County, principally, with a small part of the drainage basin and site of one of the storage dams and one powerhouse in Skamania County; on the White Salmon River which is not navigable above the backwater from the Bonneville Dam on the Columbia River which is below the lowest unit of the project; in the region of the cities and towns of White Salmon, Bingen, Husum and Trout Lake in Washington and Hood River in Oregon.

In general the plans provide storage at Ninefoot Creek, Trout Lake and storage for peaking requirements at Condit Dam; total installed capacity 177,000 kw. On the assumption that 83,000 acre feet of storage would be available at Ninefoot and Trout Lake dams, the development would produce 625,000 KWH of firm energy annually. An outline follows—NINEFOOT CREEK, 5½ mi. above Trout Lake, 160' high dam, 10,000 acre foot storage, 22,000 kw installed power; TROUT LAKE, dam at River Mile 27, 104' high, 73,000 acre foot storage and a powerhouse at River Mile 21, 13,000 kw installed power; GILMER, diversion from the river at Trout Lake Powerhouse tailrace, 40' high dam at River Mile 21, no storage, a powerhouse at River Mile 16, 48,000 kw installed power; HUSUM, diversion from the river at Gilmer power house tailrace, 40' dam at River Mile 16, no storage, and a powerhouse at River Mile 10 with 39,000 kw installed power; BUCK CREEK, diversion from the river to Husum power house tailrace, 40' high dam at River Mile 10, no storage, and a powerhouse at River Mile 6 with 15,000 kw installed power; CONDIT, reconstruction of the old PP&L Co. dam and powerhouse involving raising and reconstructing the present dam at River Mile 2.7 and constructing new powerhouse at River Mile 2.0 with 40,000 kw installed power.

The proposed initial development which would cost approximately $26,000,000 would involve: 1—storage and regulation dam at Trout Lake, 2—diversion dam and powerhouse at Gilmer, 3—powerhouse at Husum with one-half of installed power capacity, 4—acquirement and reconstruction of Condit Dam, 5—acquisition of Condit powerhouse and construction of new plant with one-half the installed power capacity.
DC 11-12. Previous report 3-27

■ **DAM— Howard A. Hanson Dam, Wash.**

A third list of planholders has been issued on construction of the Howard A. Hanson Dam and appurtenances on the Green River about 30 mi. southeast of Seattle and seven mi. upstream from Kanasket at Eagle Gorge; CIVENG-45-108-59-6. Bids will be opened 2 p.m., November 21 by Corps of Engineers, 1519 S. Alaskan Way, Seattle.

Planholders: Berger Engineering Co., 3236 16th S.W., Seattle; Butler Construction and Engineering Co., 3419 13th S.W. Seattle; Green Construction Co., 928 Securities Bldg., Seattle; J. A. Jones Construction Co., 432 Medical Arts Bldg., Seattle; Morrison-Knudsen Co., Inc., 603 Hoge Bldg., Seattle; S. S. Mullen, Inc., 9th Ave. and Holgate, Seattle; Osberg Construction Co., 1132 N. 128th, Seattle; Scheumann & Johnson, 1014 Lloyd Bldg., Seattle; Wayne Construction Co., 3810 Stone Way, Seattle; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco, Calif.; A. H. Barbour & Son, 2828 N.E. Alberta, Portland, Ore.; Cherf Bros. Inc. and Sandkay Contractors, Inc., Box 938, Ephrata; George Chicha Co., E. 2917 Sharpe, Spokane; Concrete Constructin Co., 2015 Center St., Tacoma.

Condon-Cunningham Co., 4229 Lafayette Ave., Omaha, Nebr.; J. N. Conley, 4332 N. E. Royal Court, Portland, Ore.; Donald M. Drake Co., 1600 N.W. Savier Ave., Portland; Gibbons & Reed Co., Box 2429, Salt Lake City, Utah; Carl M. Halvorson, Box 1449, Portland; Henry J. Kaiser Co., 1924 Broadway, Oakland, Calif.; W. E. Kier Construction Co., Box 147, El Segundo, Calif.; Peter Kiewit Sons' Co., 1024 Omaha National Bank Bldg., Omaha, Nebr.; Macco Corp., 14409 S. Paramont Blvd., Paramount, Calif.; Ray L. Martin, Box 486, Portland; McLaughlin, Inc., Box 1824, Great Falls, Mont.; P. Perini Corp., 1504 Russ Bldg., San Francisco, Calif.; Strong & MacDonald, Inc., 4045 Ruston Way, Tacoma; Tecon Corp., 202 Davis Bldg., Dallas, Tex.; Vinnell Co., Inc., 1145 Westminister Ave., Alhambra, Calif.

Western Contracting Corp., 400 Benson Bldg., Sioux City, Iowa; Winston Bros. Co., Box 411, Monrovia, Calif.; Anderson Construction Co., 243 Central Bldg., Seattle; A. J. Cheff Construction Co., 10054 W. Marginal Way, Seattle; Pieler Construction Co., 300 Spokane St., Seattle; Amis Construction Co., Box 1971, Oklahoma City, Okla.; Curtis Construction Co., Box 106, Spokane; L. E. Dixon Co., 409 S. California, San Gabriel, Calif.; Gibson & Roberts, Inc., Box 200, Yardley; Goodfellow Bros. Inc., Box 598, Wenatchee; Hartwell Dam Contractors, 662 Russ Bldg., San Francisco, Calif.; A. S. Horner Construction Co., 118 S. Pecos, Denver, Colo.

The Hunkin Conkey Construction Co., 1740 E. 12th St., Cleveland, Ohio; Isbell Construction Co., Box 2351, Reno, Nev.; Guy H. James Construction Co., Box 9575, Oklahoma City, Okla.; Kathman Construction Co., Box 555, Kenmore, Wash.; Key Construction Co., 1601 Taylor Way, Tacoma; Meller & Hutchins, Contractors, Inc., 100 Grant Smith Road, Roseburg, Ore.; Paragon Construction Co., Box 4816 Redford Station, Detroit, Mich.; Trinity Dam Constructors, Box 248, Lewiston, Calif.; United Construction Co., Box 1000, South San Francisco, Calif.; The Arundel Corp., 501 St. Paul Place, Baltimore, Md.

Approximate quantities: 220,000 c.y. unclassified excavation; 370,000 c.y. common excavation; 630,000 c.y. rock excavation; 21,000 c.y. tunnel excavation; 760,000 c.y. rock fill; 530,000 c.y. sand and gravel core; 180,000 c.y. random fill; 40,000 c.y. concrete; 1,000,00 lb. steel reinforcement; 50,000 lb. structural steel exclusive of regulating and emergency gates which will be Government-furnished and installed by contractor.

The rock at the site was described by Al Cary, chief of the foundations section of the Seattle District, as volcanic, mainly andesite and basalt. A rock slide some years ago changed the course of the Green River at the point where the dam is to be constructed.

The dam will be rockfill with an impervious core. Two methods in constructing the rockfill portion may be employed by the contractor, Alt. 1—rock may be dumped and sluiced or Alt. 2—rock may be placed and compacted with 50-ton rollers.

Plans call for a balance between cut and fill. It is expected that there will be enough rock, sand and gravel at the site to build the embankment.

The successful contractor will be expected to coordinate his operations with the Northern Pacific Railroad, the Tacoma Water Department and the Weyerhaeuser Timber Co. DM 11-11. Previous report 10-23

★**SWITCHGEAR— Ice Harbor Lock and Dam, Wash.**

Award to Westinghouse Electric Co., 309 S.W. 6th, Portland, Ore., $85,221, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, for furnishing and delivering one 4,160-volt switchgear, fob south shore Ice Harbor Lock and Dam, Powerhouse Station Service, Ice Harbor Lock and Dam, Wash.; CIVENG-45-164-59-10.

DM 11-11. Previous report 9-23

● **RAILROAD RELOCATION (Shoofly)— John Day Lock and Dam, Wash.**

(Estimated cost $1,000,000)

Bids from a select list of bidders will be opened November 17 by Spokane, Portland and Seattle Railway, American Bank Bldg., Portland, on construction of railroad shoofly on the north or Washington shore in connection with road and rail relocation made necessary by John Day Lock and Dam. Design of the shoofly was made by the railway engineers. Length of the temporary line is 1.6 miles.

Permanent relocation work along the Washington shore will be handled largely by contracts with the State Highway Department, with the railroads concerned and with private engineering organizations. The Seattle District of the Corps of Engineers is doing the planning on the permanent relocation work on the north shore. DM 11-7

▲**CANAL— Kennewick, Wash.**

Bids were opened November 6 by Bureau of Reclamation in office of Kennewick Irrigation District, Kennewick for supplemental construction on the Kennewick main canal, about 21 mi. west to seven mi. southeast of Kennewick, Benton County, Kennewick Division of Yakima Project, Wash.; Spec. No. 100C-350. Completion time April 10, 1959. LOW BIDS: L. B. Shilling, Moses Lake, $118,709; Cherf Bros. Inc. and Sandkay Contractors, Inc., Ephrata, $130,663; Lewis Hopkins Co., Pasco, $151,330.

Quantities: 12,800 c.y. canal excavation; 15,000 c.y. borrow excavation; 80 c.y. structure excavation; 25 c.y. trench excavation; 61 c.y. compacted backfill about structures; 14,400 c.y. compacted earth; 8,300 c.y. compacted blended earth lining; 10,000 mi. c.y. overhaul; 1,300 c.y. gravel blanket; 115 c.y. riprap; 60 c.y. gravel bedding for riprap; 100 c.y. coarse gravel protection; 27,500 sq. yd. trimming foundation for concrete lining; 114 c.y. concrete in structures; 1,782 c.y. concrete in canal lining; 2,844 bbl. furnish, handle cement; 8,340 lb. furnish, place reinforcement bars; 2 drain pipe extensions; 2.1 MBM furnish, install timber walk plants; 2,350 lb. furnish, install miscellaneous metalwork.

DM 11-7. Previous report 10-17

■ **PIER (Repairs)— Keyport, Wash.**

(Estimated cost $25,000 to $100,000)

Planholders announced on repairs to the North Approach Pier No. 1 at U.S. Naval Torpedo Station, Keyport; Spec. No. 183888/-58. Bids will be opened 2 p.m., P.S.T., November 21, by 13th Naval District, Room 107B, Bldg. 250, U.S. Naval Station, Seattle. Plans with Seattle office. Bid guarantee 20%.

Planholders: Willar Construction Co., 9709 Greenwood, Seattle; Larson Construction Co., Colman Bldg., Seattle; Cotton Engineering and Shipbuilding Corp., 126 Madison Port Townsend; Butler Construction and Engineering Co., 3419 13th Ave. S.W., Seattle; General Construction Co., 3840 Iowa, Seattle; Arthur Fralick Co., 3008 E. 57th St., Seattle; Dale M. Madden, 3010 E. 163rd, Seattle; American Pile Driving Co., Inc., Pier 2, Everett; Puget Sound Bridge and Dredging Co., 2929 16th S.W., Seattle; Einar Johnson Construction Co., Box 466, Puyallup.

Winterburn Construction Co., Box 202, Port Townsend; Western Tru Products, Inc., Box 100, Tacoma; Hart Construction Co., 3536 E. 11th, Tacoma; Sentry Automatic Sprinkler Co., 2716 A St., Tacoma; O. I. Hall Co., 605 13th Ave., Seattle; Hopper Co., 1200 Westlake Ave. N., Seattle; Del Guzzi, Inc., 1029 Front St., Port Angeles; Owens Bros. Engineer and Construction Co., Railroad and Oak, Port Angeles; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle; MacRae Bros., 5900 2nd Ave., Seattle; Gillis & Co., 844 E. 91st St., Seattle.

Work involves demolition and/or removal of superstructure of North Approach approximately 370' long and 20' wide. The superstructure shall be replaced with treated timbers and lumber and laminated lumber decking with asphatlic concrete pavement on top. Project also includes providing felt flashings over timbers, treatment of pile heads and replacement of bracings.

DM 11-11. Previous report 11-1

★**CRUSHED STONE (Furnish)— King County, Wash.**

Award to J. Arlie Bryant, Inc., and Clarence Braden, S. 3716 Skiview Drive, Spokane, $36,600 (Maury Island) and R. H. Sussex, 2850 State Highway 2A, Bellevue, $37,600 (Redondo) by King County Commissioners, 402 County City Bldg., Seattle, for furnishing crushed stone surfacing in stockpile from two locations, Maury Island (30,000 c.y.) and Redondo (40,000 c.y.).

Quantities—Maury Island in Section 21, T. 22, N.R. 3, E.W.M., King County: 10,000 c.y. of 1½" crushed stone surfacing base course in stockpile; 10,000 c.y. of ¾" minus crushed stone surfacing maintenance rock in stockpile; 10,000 c.y. of ¾" minus crushed stone surfacing top course in stockpile.

Quantities — Redondo, approximately 0.2 mi. westerly of Pacific Highway S. (P.S.H. No. 1) on S.S.H. 1-V (Dash Point Road) in Section 5, 21 N.R., 4 E.W.M., King County: 20,000 c.y. 1½" minus crushed stone surfacing base course in stockpile; 20,000 c.y. ¾" crushed stone surfacing top course in stockpile. DM 11-12. Previous report 11-4

ROAD SURFACING— Mesa, Wash.

Bids will be called in the near future by Bureau of Reclamation on gravel surfacing about 10.3 mi. of operating roads in Block 20 west of Mesa, Columbia Basin Project, Wash. DM 11-7

DRAINS— Mesa, Wash.

Bids will be called in the near future by Bureau of Reclamation on earthwork and structures for about 2,500' of DPE38.9B closed pipe drain and about three mi. of DPE38.9B1, DPE40 and DPE40A open ditch drains in Blocks 14 and 19, west of Mesa, Columbia Basin Project, Wash. DM 11-7

LATERALS— Mesa, Wash.

Bids will be called in the near future by Bureau of Reclamation, on construction of about one mi. of earthwork and structures, about eight mi. of unlined laterals, one pumping plant and one siphon in Block 201 near Mesa, Columbia Basin Project, Wash.

Plans call for earthwork and structures for about one mi. of three-foot bottom width concrete-lined lateral; about eight mi. of unlined laterals with bottom widths varying from 6' to 2'; construction of two small outdoor-type pumping plants; one 36" precast concrete pipe siphon about 2,300' long. DM 11-7

★**DRAINAGE CORRECTION— Okanogan County, Wash.**

Award to Excavators, Inc., 5756 29th N.E., Seattle, $14,766, by Bureau of Public Roads, 824 Morgan Bldg., Portland, for drainage correction on Loup Loup Highway, Okanogan National Forest, Okanogan County, Wash.; FHP 28-D7.

WB 11-7. Previous report 10-23

■ **STATE HIGHWAY PROJECTS— Olympia, Wash.**

Planholders announced on state highway construction projects on which bids will be opened 10 a.m., November 18 by Washington State Highway Commission, Transportation Bldg., Olympia.

PAVING, GRADING, SSH No. 5-K Interchange and Jct. PSH No. 1 to Klaus—Clearing, draining, grading, surfacing, constructing bituminous surface treatment and cement treated base, paving with asphaltic concrete, signing, installing illumination and fencing on 2.282 mi. State Highway No. 1 and 5-K, Lewis County; FAP No. I-5-2(35)68.

Planholders: Northwest Construction Co., 3550 6th Ave. N.W., Seattle; Pacific Sand and Gravel Co., Box 628, Centralia; Charles T. Parker Construction Co., 219 Builders Exchange Bldg., Portland, Ore.; Pieler Construction Co., Inc., 300 Spokane St., Seattle; Charles R. Watts Co., 4121 6th Ave. N.W., Seattle; Interstate Asphalt Co., Inc., Box 1218, Aberdeen; Lockyear & White, Inc., Box 687, Longview; Rex C. Ayers Construction Co., 7305 N.E. 20th, Portland; Sutherlan Fixture Co., 4540 S. Adams, Tacoma.

The Harrison Bros. Co., 225 Wakefield Drive, Tacoma; Line Materials Industries, 125th and Madison S. Milwaukee Wis.; Peter Kiewit Sons' Co. Box 1777, Vancouver; G. S. Electric Co., 3010 67th S.E. Mercer Island; Erickson Paving Co., 14446 Sunset Highway, Bellevue; J. N. Conley, 4332 N.E. Royal Court, Portland; Bocek Bros., Box 666, Hoquiam; C. W. Bignold, Box 126, Elma; The United Contracting Co., Box 5075, Portland; S. D. Spencer & Son, 4614 N.E. 72nd, Vancouver; J. D. Shotwell Co., 3113 S. Pine, Tacoma; Hardisty Construction Co., Inc., 219 Medical Arts Bldg., Vancouver; W. B. Graham & Sons, 984 North St., Chehalis; James Crick & Sons, Box 102, Yardley; Beuter & O'Neil and G. W. Thomas & Son, 2301 Snively, Chehalis.

PAVING, Kincaid St. to Division St. in Mount Vernon—Draining, grading, surfacing, constructing bituminous surface treatment, paving with asphaltic concrete and cement concrete on 0.31 mi. PSH No. 1, Skagit County; a State Project.

Planholders: Associated Sand and Gravel Co., Box 914, Everett; Wilder Construction Co., Inc., 1840 State St., Bellingham; Fowler Asphalt Paving Co., 711 2nd, Mount Vernon; R. L. Moss & Co., Box 37, Zenith; American Bitumuls and Asphalt Co., Box 4062, Portland.

GRADING, SURFACING, Block 85 Feeder Roads—Draining, grading, surfacing on 24.533 mi. Grant County roads; a State Project.

Quantities: 25 mi. grading; 26,640 ton crushed surfacing; 2,352' of concrete pipe; 1,788' metal pipe; 15,402' standard right-of-way fence. DM 10-31

Planholders: Frank G. Baulne, Inc., Box 94, Yardley; James Crick & Sons, Box 102, Yardley; F. H. DeAtley & Co., Box 648, Lewiston, Idaho; Leo J. Laving, Coulee City, Wash.; Russell-Gillett Co., Box G., Cle Elum; J. N. Conley, 4332 N.E. Royal Court, Portland; Maurice Gredvig, Box 301, Yakima; J. W. Hardison Co., Box 38, Yakima; C. J. Painter, Box 51, Pasco; W. R. Sutherland, Box 22, Wilbur; Murphy Bros., Inc., E. 3728 Broadway, Spokane. DM 11-11. Previous report 10-31

GATES— Othello, Wash.

Bids will be called in the near future by Bureau of Reclamation for furnishing and installing eight automatic slide gates on the West canal, fifth section, northwest of Othello, Columbia Basin Project, Wash. DM 11-7

LATERALS— Othello, Wash.

Bids will be called in the near future by Bureau of Reclamation on earthwork and structures for about 3,000' of the EL82D, EL82D1 and EL82G1 laterals in Block 46 near Othello. DM 11-7

LATERAL MODIFICATIONS— Othello, Wash.

Bids will be called in the near future by Bureau of Reclamation for furnishing and installing an automatic slide gate and controls, earth lining about 100' of lateral, construction of culvert, modification of structures, raising lateral banks in Block 45 near Othello. DM 11-7

STORM SEWERS— Pasco, Wash.

Voters defeated an $800,000 bond issue for construction of storm sewers in Pasco at the November 4 election. The city engineering department had been preparing plans for the proposed sewer project. RM 11-12. Previous report 9-10

SANITARY FILL— Pullman, Wash.

(Estimated cost $12,000)

A bond issue of $12,000 was passed by Pullman voters at the November 4 election to finance a new sanitary fill at the Pullman city dump. MH 11-7. Previous report 9-19 (City Improvements)

●WATER SYSTEM— Quinault Ranger Station, Wash.

Bids will be opened 2 p.m., P.S.T., December 2 by U. S. Forest Service, regional contracting office, 729 N.E. Oregon St., Portland, Ore. (Box 4137) for installation of domestic water system at Quinault Ranger Station, Olympic National Forest, Wash. Plans with above office or with forest supervisor, Post Office Bldg., Olympia.

Bids will be taken on furnishing materials and labor for complete installation of domestic water system, including pump. DM 11-11

BRIDGE— Renton, Wash.

Two bond issues to finance bridge construction were defeated by Renton voters on November 4. Plans called for expenditure of $140,000 to replace the Houser Way bridge and $110,000 to replace the Wells St. bridge, both over the Cedar River. Consulting engineer is Cecil C. Arnold, Arctic Bldg., Seattle. RC 11-12. Previous report 8-26

▲PLUTONIUM TEST REACTOR (Phase 3)— Richland, Wash.

Complete list of bidders follows for construction of Phase 3, plutonium test reactor facilities at Hanford Works; AT (45-1)-1410. Bids were opened November 5 by Atomic Energy Commission, Hanford Operations Office, Box 550, Richland.

LOW BID: Shaw & Estes, Inc., P. O. Box 2399, Dallas, Tex., $1,587,000. OTHER BIDS: Hoffman Construction Co., 715 S.W. Columbia, Portland, Ore., $1,804,000; B. D. Bohna and Co., Inc., and Cerro Construction Corp., San Francisco, $2,294,500 (joint venture); The Bay Co., 1512 Center, Tacoma, $2,643,650; Procon, Inc., Des Plaines, Ill., $3,008,000; ENCON, Burbank, Wash., $6,357,500. Government estimate $2,873,000.

Work consists of 1—construction of reactor vessel about 11' in diameter, 10' high, fabricated of ¼" aluminum plate with black iron shielding plates about 6" thick surrounding the vessel and a concrete shielding around the vessel about 6' thick, 2—process solution storage tank about 15' in diameter, 9' high; two removable shields, about 40" thick, 11" in diameter; stainless steel primary coolant system including three 350 hp pumps; moderator coolant system; reflector cooling system including two 20 hp pumps; secondary coolant system including three 125 hp pumps; helium gas system with three high pressure storage tanks, two heat exchangers, four intermediate pressure storage tanks, electrical control equipment; other supporting equipment; ventilation system; process water treatment system. RM 11-7. Previous report 11-6

ROAD SURFACING— Royal, Wash.

Bids will be called in the near future by Bureau of Reclamation on gravel surfacing about 40 mi. of operating roads in Block 85, near Royal, Columbia Basin Project, Wash. DM 11-7

SEWERS— Seattle, Wash.

Eight sewage disposal items estimated at $18,000,000 are listed in the ordinance that has been introduced in the City Council, Seattle. The ordinance authorizes the sale of $7,000,000 in bonds. These are the first drawn on the new sewer utility which up to this time has been financed directly from sewerage service charges.

Listed below are construction projects only, included in the new ordinance. Other items in the ordinance include site acquisition, surveys, tests, and cost payments. 1—Construction of Seaview Ave. interceptor, the West Seattle interceptor and treatment plant and the rehabilitation of the North Trunk Sewer on Ravenna Blvd., 2—Construction of Lake Union and Portage Bay pumping station and interceptor, 3—Construction of combined or separate storm and sanitary sewers where needed to relieve overloads on the existing sewerage system, 4—Construction of sewage treatment facilities at Carkeek Park together with necessary interceptors, 5—Construction of parallel trunk sewers and holding tanks where needed at various locations along the shore of Lake Washington. DC 11-7

▲GASOLINE DISPENSING FACILITY, RAMPS— Seattle, Wash.

A low bid of $3,456 was submitted by Red-e Construction Co., 6056 37th N.E., Seattle, to General Services Administration, Public Buildings Service, 909 1st Ave., Seattle, for construction of gasoline dispensing facility and ramp revision at the Federal Office Bldg., 1st Ave. and Madison, Seattle; SEA-1235. Bids opened November 6. OTHER BIDS: Willar Construction Co., 9709 Greenwood, $3,594; Livers Bros., 3223 E. 123rd, $3,893; Dale M. Madden Construction, 3010 E. 163rd, $4,129; Reeb & Sheets Equipment Co., 1060 N. 34th, $4,236; Noble W. White Construction Co., 4142 W. Marginal Way, $7,372. All of Seattle. RM 11-8. Previous report 10-23

▲TRACTOR— Seattle, Wash.

A low bid of $24,412 was submitted by N C Machinery Co., Division of Northern Commercial Co., 4233 W. Marginal Way, Seattle, to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing one crawler type tractor, min. 125 h.p., with bulldozer and winch. Bids were opened November 6. ONLY OTHER BID: Pacific Hoist and Derrick Co., 3200 4th S., Seattle, $28,500. RM 11-8. Previous report 10-23

★WATER DISTRIBUTION SYSTEM— Seattle, Wash.

Award to Superior Construction Co., 4610 37th S.W., Seattle, $11,119 (ULID No. 5), $9,348 (ULID No. 6) by King County Water District No. 61, 10402 16th Ave. S.W., Seattle, for construction of water distribution system. Plans by Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle.

Project involves furnishing and installing about 5,500' of 6" and 4" cast iron water mains, fire hydrants, fittings and appurtenances. DM 11-11. Previous report 10-4

▲SITE IMPROVEMENT— Seattle, Wash.

Five bids ranging from a low of $1,668 by Washington Asphalt Co., 309 W. 39th, Seattle, to a high of $4,073 were submitted November 10 to Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for improvement of Pioneer Place at 1st Ave. and Yesley Way, Seattle; Contract No. 624.

Other bids: Meridian Pavers, 10301 Aurora, $2,594; Stillwell Construction Co., 919 Horton, $2,738; Harry S. Olsen Construction Co., 16166 41st N.E., $2,999; Dale M. Madden, 3010 E. 163rd, $4,073. A bid on one item only was submitted by North West Asphalt Co., 7343 E. Marginal Way. All of Seattle. DM 11-11. Previous report 10-22

●ROCK, CONCRETE, PIPE, PAINT— Seattle, Wash.

Bids will be opened 9:30 a.m., December 8 by King County Commissioners, 402 County City Bldg., Seattle, for furnishing rock, plantmix, pipe and paint for county requirements for 1959. Specifications obtainable at 606 County City Bldg.

ROCK—About 3,000 ton M/L large rock, 165# to the cu. ft. with a max. volume of 5 cu. ft. and a min. of 2 cu. ft.; 7,000 ton M/L quary waste rock. Certified check or bid bond for not less than $500.

CONCRETE, PLANTMIX—Asphaltic concrete and bituminous plantmix for the year. Certified check or bid bond for not less than $100.

PIPE—Concrete pipe and fittings, concrete building block, concrete manhole blocks

for the year. Certified check or bid bond for not less than $100.

PAINT—12,000 gal. white traffic paint; 1,000 gal. yellow traffic paint; 1,400 gal. thinner for above; 1,500 gal. beaded white traffic paint. Certified check or bid bond for not less than $100. DM 11-11

■ **GRADING, DRAINING, SURFACING— Seattle, Wash.**

Planholders announced on grading, draining and surfacing for four separate construction projects. Bids will be opened 9:30 a.m., November 24, by King County Commissioners, 402 County City Bldg., Seattle. Plans with D. L. Evans, county road engineer, 905 County City Bldg., Seattle. $10 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on each project.

DRAINING, GRADING, SURFACING, Shadow Lake Road—Draining, grading, surfacing 2.31 mi. from Wax Road to Sweeney Road, King County.

Quantities: lump sum for clearing and grubbing; 25,930 c.y. common excavation, including haul; 75 c.y. common ditch excavation, including haul; 1,000 c.y. unsuitable foundation excavation, including haul; 257 c.y. structure excavation; 115 M gal. water; 100 hours rolling; 39 c.y. gravel backfill for foundations; 8,200 ton selected roadway borrow; 3,100 ton crushed surfacing top course; 5,130 ton crushed surfacing base course; 393' of 12" concrete culvert pipe; 363' of 18" standard reinforced concrete culvert pipe; one standard concrete catch basin; 68 guide posts; 11 sq. yd. remove existing concrete driveway; 45' of 24" standard reinforced concrete culvert pipe.

Planholders: Bass Construction Co., 1256 Aurora, Seattle; Anderson & Johnson Excavating Co., 11037 Roosevelt Way, Seattle; Thomas Scalzo Co., 3211 Airport Way, Seattle; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; J. J. Welcome Construction Co., Cleveland and Leary, Redmond; Pacific Construction Co., 3625 Colorado, Seattle; J. E. Work & Co., 14217 Lake Hills Blvd., Bellevue.

CLEARING, SURFACING, GRADING, Arrowhead Point Road, Juanita Drive Intersection—Clearing, grading, surfacing at intersection.

Quantities: lump sum for clearing and grubbing; 2,855 c.y. common excavation, including haul; 137 c.y. structure excavation; 30 M gal. water; 50 hour rolling; 975 ton selected roadway borrow; 855 ton crushed stone surfacing top course; 750 ton crushed stone surfacing base course; 4 ton asphalt cement prime coat MC-3; 740 ton asphaltic concrete pavement class B 89 precast traffic buttons; 380' of 12" plain concrete culvert pipe; 14' of 24" standard reinforced concrete culvert pipe; four catch basins; 41 c.y. beam guard rail; 37 guide posts; 52' remove existing guard rail; 12 reset existing guide posts.

Planholders: Stanley S. Martin, Exchange Bldg., Seattle; Lake City Gravel and Materials, Inc., 10728 Bothell Way, Seattle; Seattle Contracting Co., 101 Nickerson, Seattle; Washington Asphalt Co., 309 W. 39th, Seattle; Pacific Construction Co., 3002 16th S., Seattle; J. E. Work & Co., 14217 Lake Hills Blvd., Bellevue.

DRAINING, GRADING, SURFACING, N.E. 8th St.—One mi. of grading, draining, surfacing from 148th Ave. N.E. to 164th Ave. N.E., King County.

Quantities: lump sum for clearing, grubbing; 14,940 c.y. common excavation, including haul; 3,400 c.y. unsuitable foundation excavation, including haul; 135 c.y. structure excavation; 50 M gal. water; 48 hours rolling; 62 c.y. gravel backfill for foundations; 9,040 ton selected roadway borrow; 1,300 ton crushed stone surfacing base course; 54' of 12" plain concrete culvert pipe; 366' of 18" standard reinforced concrete culvert pipe; 60' of 24" same; 48' of 48" same; 21 guide posts.

Planholders: Bass Construction Co., 1256 Aurora, Seattle; Anderson & Johnson Excavating Co., 11037 Roosevelt Way, Seattle; Thomas Scalzo Co., 3211 Airport Way, Seattle; J. J. Welcome Construction Co., Cleveland and Leary, Redmond; Pacific Construction Co., 3625 Colorado, Seattle; J. E. Work & Co., 14217 Lake Hills Blvd., Bellevue.

DRAINAGE, N. 175th St.—Drainage from 6th Ave. N.W. to Dayton Ave., King County.

Quantities: lump sum for clearing, grubbing; 2,785 c.y. structure excavation; 165 c.y. gravel backfill for foundations; 15 ton crushed stone surfacing top course; 7 ton asphaltic concrete class B; 850' asphaltic concrete lined ditch; 80' asphaltic concrete spillway; 5 c.y. concrete class C; 1,977' of 24" plain concrete culvert pipe; 84' of 24" standard reinforced concrete culvert pipe; 188' of 12" relay plain concrete culvert pipe; two standard manholes, 10' to 12' depth; five special catch basins; reset one catch basin.

Planholders: Superior Construction Co., 4610 37th S.W., Seattle; Frank Coluccio Construction Co., Inc., 7778 Seward Park, Seattle; Pacific Construction Co., 3625 Colorado, Seattle; J. E. Work & Co., 14217 Lake Hills Blvd., Bellevue; John Schade Construction Co., 151 N. 78th, Seattle.

DM 11-12. Previous report 11-1

● **ALUMINUM SHEETS— Seattle, Wash.**

Bids will be opened 10 a.m., November 18, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing and delivering to the transit storehouse at Airport Way and Atlantic, Seattle, eight sheets of 14 gauge, .063x48x144 alumnuim and 200 sheets of .032x24x144. Specifications with above office. DM 11-12

● **CASTINGS— Seattle, Wash.**

Bids will be opened 10 a.m., November 18, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing and delivering 105 bottom tank castings and 105 top tank castings to the transit storehouse at Airport Way and Atlantic, Seattle. Specifications with above office. DM 11-12

● **STEEL PIPE— Seattle, Wash.**

Bids will be opened 10 a.m., November 18, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing and delivering to the water department at 2800 Airport Way and Atlantic, Seattle, 60,-300' of galvanized standard steel pipe. Specifications with above office.

Quantities: 20,000' of ¾"; 15,000' of 1"; 15,000' of 1½"; 10,000' of 2"; 300' of 3".

DM 11-12

BRIDGE (Lewis River Road, Eagle Cliff Bridge)— Skamania County, Wash.

The 340' Eagle Cliff Bridge, on Lewis River Road, Gifford Pinchot National Forest, Wash., under FDRP N90-A, will be of structural steel construction, rather than reinforced concrete as previously announced. Bids will be opened 2 p.m., November 20, by Bureau of Public Roads, 824 Morgan Bldg., Portland, Ore. Plans obtainable with above office or by phoning CApitol 6-3361, Extension 460, Portland.

WB 11-7. Previous report 10-31

■ **BRIDGE (Lewis River Road, Eagle Bridge)— Skamania County, Wash.**

Planholders announced for construction of 340' structural steel Eagle Cliff Bridge, on Lewis River Road, Skamania County, Gifford Pinchot National Forest, Wash.; FDRP N90-A. Bids will be opened 2 p.m., November 20, by Bureau of Public Roads, 824 Morgan Bldg., Portland, Ore. Plans with above office (phone CApitol 6-3361, Extension 460, Portland).

Planholders: Hannan Bros., 8410 S.E. Otty Road, Portland; West Coast Steel, Box 2627, Portland; General Construction Co., 4850 N.W. Front Ave., Portland; C. M. Corkum, 2630 S.W. 2nd Ave., Portland; Richard L. Martin Co., Box 482, Oswego, Ore.; Steel Construction Co., 5300 N.W. Front Ave., Portland; Gate City Steel, Inc., 4000 Warm Springs Ave., Boise, Idaho; A. R. Nieman Construction Co., 2001 Main St., Vancouver; Gro-Bar Engineering Co., Box 179, Blue River, Ore.; O. C. Bennard, 222 N. Holland, Portland; J. E. Collins & Co., 1314 E. 43rd St., Seattle; Alton V. Phillips Co., 4055 21st Ave. W., Seattle; S. & C. Construction Co., 4502 51st S.W., Seattle; Louis Eiterich Co., Box 868, Port Angeles; Quigg Bros.-McDonald, Inc., 1500 Riverside Ave., Hoquiam; Don L. Cooney, Inc., 2318 S. Tacoma Way, Tacoma; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland.

WB 11-12. Previous report 11-7

UNDERGROUND STORAGE (WWP Co.)— Spokane, Wash.

Preliminary site testing on a site northeast of Spokane has shown the feasibility of natural underground gas storage, according to Washington Water Power Co., Spokane. Sonics testing of the area shows a bed of granite 900' down with ideal shale and sandstone formations above. DC 11-8

SEWERS— Tacoma, Wash.

(Estimated cost $14,500,000)

Recommendations have been made by Howard T. Harstad & Associates, consulting engineers, 1000 Lenora, Seattle, to the City Council, Tacoma, for a seven-year sewer construction program based on sewer rate increases. DC 11-11

★ **CEMENT CONCRETE PAVING— Tacoma, Wash.**

Award to Concrete Construction Co., 2015 Center St., Tacoma, $19,289, by city clerk, 305 City Hall, Tacoma, for portland cement concrete paving on five alleys in LID No. 4628. CA 11-12. Previous report 10-8

★ **PAVING, FENCING, REVETMENT— The Dalles Dam, Wash. and Ore.**

Award to Frank C. Ralph & Son, 2204 N.E. Alberta, Portland, $240,000, for paving, fencing, landscaping, revetment and lighting along the north shore and fencing in the South Fishway at the Oregon shore areas at The Dalles Dam on the Columbia River, Washington and Oregon; CIVENG-35-026-59-57. WB 11-7. Previous report 10-31

★ **REGULATING BASIN TEST BORINGS— Tolt River, Wash.**

Award to Western Drilling Co., 1545 Bay St., Tacoma, $9,565, by Board of Public Works, 512 County City Bldg., Seattle, for regulating basin test borings at Tolt River; Ord. No. 87468-D.

DM 11-11. Previous report 10-23

● **DEEP WELL (Drilling and Testing)— Union Gap, Wash.**

Bids will be opened 8 p.m., November 17, by Town Council, Town Hall, Union Gap, Yakima County, for drilling and testing a deep well. Specs with town clerk Irene Hunter, Town Hall, or with the engineers, Gray & Osborne, 228 S. Second St., Yakima. $10 deposit. IG 11-7

★ **SEWERS, DRAINAGE FACILITIES— Vancouver, Wash.**

Award to Dahnco, Inc., 9053 N.E. Halsey St., Portland, $4,880, by Vancouver Housing Authority, Fred Senechal, executive director, 809 MacArthur Bldg., Vancouver, for construction of sanitary sewer and surface drainage facilities in Southcliff 5 area of McLoughlin Heights, Vancouver. Ten bids received November 5 ranging to a high of $9,950.

OTHER BIDS: Paul Ferneding, Vancouver, $5,360; James G. Robertson, Clackamas, Ore., $5,861; Riverside Construction Co., Portland, $6,120; Don Thornton, Vancouver, $6,268; Olin Pepper, Oswego, $6,270; R. & R. Excavating Co., Vancouver, $7,172; George W. Lind, Portland, 7,747; John Luyben & Son, Portland, $8,000; Harold E. Olds, Tacoma, $9,950. WB 11-7. Previous report 10-24

SEWAGE IMPROVEMENTS— Vancouver, Wash.

R. W. Beck & Associates, consulting engineers, Tower Bldg., Seattle, have been retained by Hazel Dell Sewer District, George Van Biber, commission chairman, 7511 N.E. Highway 99-N, Vancouver, to prepare a preliminary sewage improvement plan with cost estimates. The district was formed last summer. The study is being financed through a Federal Housing & Home Finance Agency loan. WB 11-11

BRIDGES— Yakima, Wash.

Preliminary surveys have been completed and money provided in the 1959 budget by Yakima County Commissioners, Courthouse, Yakima, for construction of six reinforced concrete bridges at various locations in the county. Plans by Harold Sweet, county engineer, Old Courthouse, Yakima, call for the

following: 1—Noye Road Bridge on Noy Road near east line over the North Fork of Cowich Creek, approximately 32' long, estimated cost $8,000, 2—Morton Road Bridge, about 24' long, $5,400, 3—Lateral B Road Bridge over Marion Drain, about 65' long, $13,000, 4—South Harrah Road Bridge over a drain on the South Harrah Road, about 35' long, $10,500, 5—South Harrah Road Bridge over Marion Drain, about 60' long, $12,000, 6—Marble Road Bridge over Indian Service Canal, about 32' long, $8,000.

Construction is planned for late fall or early spring while water is out of the canals and drains. IG 11-5

BITUMINOUS SURFACING— Yakima, Wash.

Preliminary surveys have been completed by Harold Sweet, Yakima County engineer, Old Courthouse, Yakima, and working drawings are underway for grading, draining, ballasting and surfacing with light bituminous treatment, several county roads. These roads are provided for in the 1959 budget and bids will be called late January or early February.

1—Wenas Road, five mi., beginning at Maley road then southwesterly about five mi., estimated cost $117,500; 2—about three mi. on Selah Loop Road, $7,050, 3—about 0.5 mi. on Goodlander Road beginning at Selah Loop Road thence westerly about 0.5 mi., $11,750, 4—about 1.25 mi. on Section One Road, $29,375, 5—about 0.44 mi. on Noyes Road beginning at Dilley Road then south to intersection of French Road, $10,340, 6—0.75 mi. of Rench Road westerly to Noyes Road, $17,625. IG 11-4

OVERPASS, SURFACING— Yakima, Wash.

A bond issue for $1,200,000 was defeated in the November 4 election by Yakima voters. The money would have financed construction of two reinforced concrete overpasses, one to be constructed at Lenox Ave. and the other on C St. in Yakima, and also to widen and surface with asphaltic concrete various streets in Yakima.

The various streets which were to have been widened and surfaced include: West Lenox from the overpass to 16th Ave.; E. Lenox from overpass to 6t St.; "C" St. and Lincoln from C St. overpass to 16th Ave.; E C St. and 9th St. from C St. overpass to Yakima Ave.; E. Yakima Ave. and Naches Ave. to 9th St.; E. Chestnut and 9th St. from 6th St. to Yakima Ave.; W. Walnut from 6th Ave. to 10th Ave.; W. Yakima Ave. from 11th Ave. to 16th Ave.

IG 11-7. Previous report 9-20

▲STATE HIGHWAY PROJECTS—
(District Office)— Yakima, Wash.

Bids were opened November 6 by R. H. Pyle, district engineer for Washington State Highway Commission at the Yakima office, for two construction projects.

BITUMINOUS SURFACING, ILLUMINATION, Dodge Junction—Clearing, draining, surfacing, constructing bituminous surface treatment, installing illumination on 0.218 mi. PSH No. 3, Garfield County; a State Project.

BIDS: J. F. Konen Construction Co., 715 D St., Lewiston, Idaho, $10,711; Morrison Construction Co., Walla Walla, $15,667; Murphy Bros., E. 3728 Broadway, Spokane, $19,428.

GRADING, Rattlesnake Creek Switchbacks—Widening roadway cuts on 0.237 mi. PSH No. 3, Asotin County; a State Project. Involves about 6,610 c.y. solid rock excavation.

BIDS: Bigson & Roberts, Inc., Yardley, $11,701; J. F. Konen Construction Co., Lewiston, Idaho, $12,030; J. W. Hardison, 4910 Richey Road, Yakima, $14,742; Morrison & Co., Walla Walla, $15,667; Murphy Bros., Inc., Spokane,, $24,987.

IG 11-8. Previous report 10-21

POWER LINE— Yakima, Wash.

Bids were rejected by Washington State Highway Commission, for construction of power line along 3.4 mi. of PSH 3, Squaw Creek to Roza Camp, Kittitas County, a State Project. The low bidder at the October 9 bid opening in the district office in Yakima, was Power City Electric, Inc., N. 920 Howard, Spokane, $12,523. Bids will be readvertised later.

IG 11-8. Previous report 10-17

IDAHO

▲STATE HIGHWAY PROJECTS— Boise, Idaho

Bids were opened by Idaho Department of Highways, 603 Main St., Boise on six highway construction projects on November 4.

CORRUGATED PIPE, St. Maries - Avery Road—Furnishing and placing 144" corrugated plate pipe at Rochat Creek, Benewah County; FAP No. DS-5711(1).

LOW BIDS: Carbon Bros., Spokane, $12,947; E. F. Matelich Construction Co., Coeur d'Alene, Idaho, $16,126; Grant Construction Co., Coeur d'Alene, $17,395.

SURFACING, Rogerson-Cedar Creek Road, Cedar Creek - Salmon Dam—Constructing crushed gravel base on 5.114 mi., Twin Falls County; FAP No. DS-2701(2).

LOW BIDS: T & S Construction Co., Twin Falls, $45,670; Aslett Construction Co., Twin Falls, $48,913; Robert V. Burggraf Co., Idaho Falls, $53,230.

SURFACING, DRAINAGE, Council-Hornet Creek—Constructing roadway, drainage structures, crushed gravel base on 2.231 mi. and roadmix bituminous surfacing on 0.696 mi. of Hornet Creek Road, Adams County; FAP Nos. S-3894(2) and DS-3894(3).

LOW BIDS: Brown's Industries, Inc., McCall, $66,100; C. B. Eaton & Sons, Inc., Wendell, $86,863; Quinn Bros. & Robbins, Inc., Boise, $91,569.

ROADMIX BITUMINOUS SURFACING, Challis. North and South—Reconditioning and constructing the surface and a roadmix bituminous surface on 19.161 mi. of U.S. Highway No. 93, Custer County; FAP DF-2353(4).

LOW BIDS: Idaho Rock, Inc., Twin Falls, $274,824; James Read, Salt Lake City, Utah, $276,202; T & S Construction Co., Twin Falls, $280,351.

PLANTMIX BITUMINOUS SURFACING, Washington State Line to Rathdrum—Reconditioning roadway, constructing crushed gravel base and plantmix bituminous surfacing 8.187 ci. State Highway No. 53, Kootenai County; FAP DS-4730(1).

LOW BIDS: Grant Construction Co., Coeur d'Alene, $268,451; Carbon Bros. and United Paving Co., Inc., $271,946; F. H. DeAtley & Co., Lewiston, $285,476.

PLANTMIX BITUMINOUS SURFACING, Bridge St. in St. Anthony—Plantmix bituminous surface on 0.685 mi. of U.S. Highway No. 20 and 191, Fremont County; FAP DF-6471(16).

LOW BIDS: Carl E. Nelson Construction Co., Inc., Logan, Utah, $22,568; Gardner-Stone Co., Blackfoot, $23,071; Robert B. Bruggraf Co., Idaho Falls, $29,150.

DM 11-7. Previous reports 10-24, 10-21, 10- 14.

●STATE HIGHWAY PROJECT— Boise, Idaho

Bids will be opened 2 p.m., December 2 by Idaho Department of Highways, 603 Main St., Boise, for the following project.

PLANTMIX SURFACING, Sage Junction—Constructing road, plantmix bituminous surfacing, drainage structures and three concrete underpasses on 7.813 mi. of U.S. Interstate Highway No. 15, Sage Junction-Hamer section and seal coating 7.341 mi. Roberts-Sage Junction, Jefferson County; FAP No. I-15-3(8)142.

Quantities: 135,000 c.y. unclassified excavation Sched. 1; 141,500 c.y. same Sched. 2; 970 c.y. structure excavation Sched. 1; 2,500 c.y. same Sched. 2; 54,500 c.y. select borrow, class A; 152,000 Y. U. haul; 305 units foundation compaction; 32,600 M gal. watering; 77,000 ton crushed gravel base course; 58,900 ton select base course; 91,500 gal. MC-1 asphaltic road material for prime; 1,525 ton blotter material class C; 9,200 gal. MC-1 asphaltic road material for type B bituminous surface treatment; 7,900 gal. MC-5 same; 400 ton cover coat material class 3; 2,635 ton 120-150 penetration asphaltic road material for plantmix; 31,850 ton platmix bituminous surfacing class B; 19,000 ton same class E; 24,500 gal. 120-150 penetration asphaltic road material for seal coat; 1,225 ton cover coat material class 3; 2,500 ton same in stockpile; 240 c.y. concrete class AA; 1,125 c.y. concrete class A cast in place; 103 c.y. concrete class A precast stringers; 10 c.y. concrete class C; 203,600 lb. metal reinforcing; 6,570 lb. structural steel; 1,325' structural steel handrail; 4,210' of 12" to 24" pipe culvert; 1,305' concrete pipe siphon; 96,500' of wire fence. DM 11-11

★STATE HIGHWAY PROJECTS— Boise, Idaho

Award announced by Idaho Department of Highways, 603 Main St., Boise, on a highway construction project on which bids opened October 21.

AWARD: James Crick & Sons, Yardley, $88,663.

SURFACING, Genesee - Lenville Road—Constructing roadway, crushed rock base on 2.545 mi., Latah County; FAP Nos. DS 4792(2), S-4792(3).

Completion time September 15, 1959.

CA 11-12. Previous report 11-5

★EXPLORATORY DRILLING— Bruces Eddy Dam, Idaho

Award to Continental Drilling Co., 2810 N. Figueroa St., Los Angeles, Calif., $79,230, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla for exploratory drilling at Bruces Eddy Dam and Reservoir on North Fork Clearwater River, Clearwater County, near Orofino, Idaho; CIVENG-45-164-59-22.

Project involves 980' advancing hole with drive sampling; 400' same without sampling; 5,200' core drilling, vertical NX; 1,200' same, inclined NX; 100' same, vertical BX; 100' same inclined BX; 250' casing left in hole; 700' of observation pipe.

Project is located on shores of North Fork of Clearwater River in vicinity of Ahsahka, Idaho, about 1.9 river mi. upstream from confluence of the North Fork and the Clearwater River. DM 11-7. Previous report 10-23

●GRADING— Boise, Idaho

Bids will be opened 2 p.m., November 24, by Bureau of Public Roads, 914 W. Jefferson St., Boise, Idaho (Box 1559) for 2.273 mi. grading on Dixie Road, Nezperce National Forest, Idaho County; FDRP Nezperce 222-B. Plans with above office. Bid guarantee 5%.

Quantities: 21 acre clearing, grubbing; 68,000 c.y. excavation; 9,000 c.y. selected borrow, topping; 900' culvert pipe. DM 11-8

▲TUNNEL— Ft. Hall, Idaho

Only one bid, that of Armco Drainage & Metal Products, Boise, $30,981, was submitted November 6, to Bureau of Indian Affairs, 1001 N.E. Lloyd Blvd., Portland, for the south main canal railroad tunnel crossing, Michaud Project, Fort Hall Indian Reservation, Idaho. Government estimate was $25,000.

Quantities: 500 c.y. tunnel excavation; 75' furnishing and installing steel lining.

WB 11-8

★OFF-SITE UTILITIES— Mountain Home AFB, Idaho

Award to Watkins Construction Co., Box 1789, Boise, $44,492, by U.S. Air Force, procurement office, Mountain Home Air Force Base, for off-site utilities for 270-unit Capehart housing area, near the base; IFB-10-603-59-19. Watkins was low of two bidders when proposals were opened October 24.

DM 11-12. Previous report 10-30

STREETS— Nampa, Idaho
(Estimated cost $100,000)

Methods of financing were discussed by City Council, City Hall, Nampa, and the Chamber of Commerce, on the proposed road from the junction of Central Ave. and 11th Ave. north of Nampa's industrial site, providing an interchange for the proposed interstate highway system. The state highway department has proposed construction of two interchanges or cloverleafs, one near the Nampa sugar factory and the other at the intersection of the proposed super highway and Highway 30 east of the city at Eagle Heights.

The Chamber of Commerce favors an additional cloverleaf at the industrial site, along with a road that would lead into Nampa via 11th Ave. N. City engineer Sumner Johnson has estimated that cost of the road would be about $100,000.
DC 11-12

★**SEWAGE PLANT, SEWERS—** **Payette, Idaho**

Award to Intermountain Construction Co., Box 1879, Boise, $273,122, for sewer lines and to Davis Construction Co., Idaho Falls, $198,376, for sewage treatment plant, by City Council, City Hall, Payette. Consulting engineer was Wendell H. Smith, Route 2, Preston. DC 11-11. Previous report 10-11

MONTANA

● **SEWER—** **Billings, Mont.**

Bids will be received until 5 p.m., November 25 by City Council, City Hall, Billings, for installing sanitary sewer in SID No. 723, Blocks 2 and 4, Centerview subdivision, Billings. Plans with city engineer, City Hall. Certified check 10%. EE 11-11

★**PAINTING STANDPIPE— Billings, Mont.**

Award to Northwest Bridge and Tank Co., Sheridan, Wyo., $13,000, by City Council, City Hall, Billings, for painting and cleaning standpipe at 9th St. W. and Avenue C, Billings. EE 11-12. Previous report 10-14

● **WATER WELL (Drilling)—Boulder, Mont.**

Bids will be opened 10 a.m., December 11, by State Board of Examiners, State Capitol Bldg., Helena, for drilling a well to supply water to the State Training School (for deaf and blind) at Boulder. Plans with above office. Superintendent of the school is Dr. Westwell, Boulder. LS 11-11

WATER SYSTEM— Columbia Falls, Mont.

Columbia Falls voters approved the $165,000 bond issue at the November 4 election to finance improvements to the municipal water system, Columbia Falls. Plans call for replacement of existing wooden mains and laying of a new 10" main to the Columfalls High School. Completion time September, 1959. RB 11-7. Previous report 10-8

● **SUBSTATION— Fort Peck, Mont.**

Complete list of quantities is listed below on construction of Stage 01 additions to Dawson County substation at the Fort Peck Project near Glendive, Dawson County, Mont.; Spec. No. DC-5116. Bids will be opened 10 a.m., M.S.T., December 4, by Bureau of Reclamation, F. E. Goehring, construction engineer, Box 866, Glendive. Plans with above office and with Grant Bloodgood, chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., and F. M. Clinton, regional director, Box 2553, Billings. Completion time 670 days.

Features of work include 1—earthwork for substation addition, 2—construction of a 12' long addition to existing substation service building, 3—constructing concrete foundations, duct banks and cable trenches, 4—furnishing and erecting steel structures, 5—removing six existing bus poles, 5—removing portions of existing fencing and re-erecting and furnishing and erecting new fencing, 6—furnishing and placing gravel surfacing and furnishing and applying surface treatment, 7—installing and modifying electrical equipment, grounding system, buses, conduit and wiring.

Quantities: 15,000 c.y. excavation for addition; 660' excavation for auger-type foundations; 1,100 c.y. structure excavation except for above; 1,000 c.y. backfill; 1,000 c.y. compacting backfill; 11,000 c.y. compacting embankments; 600' sand backfill and timber protection for buried insulated electrical cables; 110 c.y. furnishing, placing gravel for gravel fills; 1,700 c.y. gravel surfacing; 10 c.y. riprap; 15,000 sq. yd. treating areas with sterilization chemicals; 170' furnishing, laying 8", No. 16 gauge, corrugated metal pipe culverts; 425' furnishing, laying 4" clay lines tile drain; 720 bbl. furnishing, handling cement; 45,000 lb. furnishing, placing reinforcement bars and fabric; 505 c.y. concrete; 700 insulating intersections of reinforcement bars; lump sum for addition to service building; 160,000 lb. furnishing, erecting steel structures; 5,100 lb. aluminum covers; 900 lb. miscellaneous metalwork; 89 signs; 14 single and double-switch-operating platforms; erecting 1,400' chain link fencing; 28,200 gal. filtering insulating oil; 4,300' bare copper cable for grounding; 940' electrical rigid metal conduit; assemblies, Detail C; 24,360', 600-volt insulated wires, cables; three autotransformers; six reactors; six breakers; two transformers; switches; traps; arresters; panelboard; 95' removing, cutting 4" wrought iron tubular bus; remove, reinstall three terminals; 1,730' aluminum bus; 3,900' aluminum cable strain buses; 25' copper cable strain buses; 525' steel cable for overhead ground wires; fixtures. DM 11-1. Previous report 10-30

▲**BRIDGES, SURFACING—** **Gallatin County, Mont.**

Listed below are the thirteen bids received November 4 by Bureau of Public Roads, Scott Hart Annex, State Highway Bldg., 8th Ave. and Roberts St., Helena, for 8.878 mi. grading, surfacing and constructing two bridges 105' and 122' in length on West Gallatin Highway, Gallatin National Forest, Gallatin County, Mont.; FHP 42-K2,L3.

BIDS: Naranche & Konda, 2801 S. Montana, Butte, $428,728; Union Construction Co., Missoula, $443,510; McLaughlin, Inc., Ford Bldg., Great Falls, $446,109; Billings Construction Co., Inc., Billings, $453,600; Kiely Construction Co., Butte, $456,359; Dillsworth Construction Co. and Maronick Construction Co., Helena, $488,549; Zook Bros. Construction Co., Helena, $532,965; Albert LaLonde Co., Sidney, $535,130; S. S. Mullen, Inc., Seattle, $537,135; Holland Construction Co., Bozeman, $543,163; Peter Kiewit Sons' Co., Billings, $545,187; S. Birch, Inc., and S. Birch and Sons, Great Falls, $563,960; Nilson-Smith Construction Co., Great Falls, $599,294.
WB 11-12. Prevoius report 11-5

■ **STORM DRAIN— Great Falls, Mont.**

Planholders announced for construction of 430' of 12" storm drain and installation of two standard storm inlets in Gibson Park, Great Falls. Bids will be opened 7:30 p.m., November 19 by Fred L. Hill, secretary of park board, Civic Center, Great Falls. Plans with city engineer, $10 deposit. Certified check 10%.

Planholders: Robertson & Cave, Inc., Box 1448, Great Falls; Utility Builders, Box 1154, Great Falls; Joe Fagenston, 1701 Smelter Ave., Black Eagle; Falls Construction Co., 25th and River Road, Great Falls.
DM 11-7. Previous report 10-29

● **PAVING— Helena, Mont.**

Bids will be opened 2 p.m., November 25, by Bureau of Public Roads, W. B. Huffine, division engineer, State Highway Bldg., Helena, Mont., (Box Capitol 277) for construction of 13.960 mi. of bituminous paving on U.S. Highway 93 between Fortine and Olney, Lincoln and Flathead counties, Mont.; FHP 12-A4, B3, C2. Plans with above office.

Construction will begin at Olney and extend northwesterly toward Fortine, terminating near Stryker.

Quantities: 20,000 gal. emulsified asphalt, RS-1; 50,000 gal. asphalt NC-5 seal; 405,000 gal. asphalt cement, 120-150; 2,200 c.y. cover aggregate; 30,000 ton plantmix. DM 11-8

★**STATE HIGHWAY PROJECTS—** **Helena, Mont.**

Awards announced by Montana State Highway Department, 1511 State Highway Department Bldg., Helena on three highway construction projects on which bids were opened November 6.

BRIDGE, Clark Fork—One 949.25' steel and concrete bridge on Idaho Line-Plains Road, Sanders County; F-F 90(4)FH.

Award: Peter Kiewit Sons' Co., 501 St. Johns Ave., Billings, $554,931.

PLANTMIX BITUMINOUS SURFACING, Philipsburg-Anaconda Road—Grading, aggregate surfacing, plantmix bituminous surfacing, seal coat oiling, draining 2.255 mi., Deer Lodge County; F 164(10) and DF 164(12).

AWARD: Kiely Construction Co., Box 246, Butte, $432,660.

SURFACING, East of Blackfoot—Grading, aggregate surfacing, draining 12.143 mi. on Northerly Road, Glacier County; S 348(2) Unit 1.

AWARD: Zook Bros., Big Fork, $287,546.
LS 11-11. Previous report 11-7

▲**TRANSMISSION LINE— Huntley, Mont.**

Six bids ranging from $141,298 by Williams Construction Co., Lewistown, to a high of $149,626 were submitted to Yellowstone Valley Electric Cooperative of Huntley, for construction of 34½ mi. of 69,000-volt transmission line between Ballantine and Custer. Award is pending REA approval.

Other bidders were Line Builders Inc., west of Billings, $149,469; Van Daveer & Co., 1250 Princeton Ave., Billings, $146,847; Lewis Construction Co., 925 10th N., Great Falls, $153,033; Swain & Morris Construction Co., 2553 Wyoming Ave., Billings, $146,353; Main Electric, Inc., Minot, N.D., $149,626. EE 11-11

★**COPPER TUBING— Kalispell, Mont.**

Award to Consolidated Supply Co., W. 1121 Gardner, Spokane, Wash., by City Council, City Hall, Kalispell, for furnishing copper tubing for the city water department on its low bids of 36.48 cents per ft. for ¾", 45.12 cents for 1", and $1.0757 for 2".
RB 11-7

★**TRUCK— Kalispell, Mont.**

Award to Flathead Motor Sales, First Ave. E. and First St., Kalispell, $2,635, by City Council, City Hall, Kalispell, for furnishing a new one-ton truck for the municipal water department. RB 11-7

MUNICIPAL WATER SYSTEM— **Kalispell, Mont.**

A resolution was passed November 3 by City Council, City Hall, Kalispell, to create a special improvement district in the Underhill and Adams addition at the northwestern edge of the city. The resolution provides for issuing 10-year bonds to raise an estimated $44,000 for a municipal water distribution system in these areas recently annexed to the city. RB 11-7

●**WATER TREATMENT PLANT—** **Lewistown, Mont.**

Bid opening has been extended from November 13 to 2:15 p.m., P.S.T., November 18 on construction of water treatment plant at TM site 178, cantonment area in Lewistown, Mont.; ENG-45-108-59-27. Bids will be opened by Corps of Engineers, 1519 S. Alaskan Way, Seattle, Wash. Plans with Seattle office. Bid bond 20%. Completion time February 15, 1959.

Work consists of construction of a concrete masonry building of approximately 330 sq. ft., adjoining an existing pumphouse, installation of aerator, pressure and filter, zeolite water softener, chemical solution feeder, four electric motor driven pumps, related piping and electrical work. Completion time February 15.
DM 11-11. Previous report 11-1

VALVES— Milk River, Mont.

Bids will be called in the near future by Bureau of Reclamation on furnishing two 4'x5' high-pressure gate valves and hydraulic hoists for Sherburn Lake Dam, Milk River Project, Mont. Estimated weight is 63,000 lb.
DM 11-7

★**WATER SUPPLY SYSTEM—** **Opheim AFS, Mont.**

Award to J. R. Bullmayer & Sons, Hogeland, Mont., $14,392 by Corps of Engineers, 1519 S. Alaskan Way, Seattle, Wash., for installation of well pump, pump pit and supply line to existing reservoir plus related electrical power and control work for the water supply system, Well No. 5 at Opheim Air Force Station, Mont.; ENG-45-108-59-19. Bids were opened October 30. Government estimate was $10,994.
DM 11-12. Previous report 10-31

POWER CIRCUIT BREAKER—Shelby, Mont.

Bids will be called in the near future by Bureau of Reclamation on furnishing one

three-phase, 115kv power circuit breaker for Shelby Substation, Missouri River Basin Project, Mont. DM 11-7

★WATER MAIN— Whitefish, Mont.

Award to Ole's Plumbing and Heating Co., Whitefish, $1,425, by State Board of Examiners, State Capitol Bldg., Helena, for installation of 2" water supply line into the armory building at Whitefish.

Other bidders at the November 6 bid opening were: Birch Plumbing and Heating Co., Kalispell, $1,500; Kalispell Plumbing and Heating Co., Kalispell, $1,523; Walbon Plumbing and Heating Co., Kalispell, $1,930. LS 11-12

ALASKA

▲TURBINES, GOVERNORS— Cooper Lake, Alaska

Four bids were received November 5 by Chugach Electric Association, 8th and Gambell, Anchorage, for two 10,500 hp. Francis turbines with governors and appurtenances for the Cooper Lake Hydroelectric Project on the Kenai Peninsula. Specifications prepared by North Pacific Consultants, consulting engineers, 220 S.W. Alder St., Portland, Ore. BIDS: American Elin Corp., New York City, N. Y., $237,640; James Leffel & Co., Springfield, Ohio, $279,790; The Pelton Co., San Francisco, Calif., $309,750; S. Morgan Smith Co., Portland, Ore., $325,745. AL 11-7. Previous report 10-4

▲BRIDGES— Juneau, Alaska

Bids were opened November 7 by Bureau of Public Roads, 319 Federal Bldg., Juneau, for construction of Wadleigh Creek Bridge DF-095-4(7), Switzer Creek Bridge DF-095-4(8) and Montana Creek Bridge DS-9668(2), Alaska. LOW BIDS: Cole & Paddock, Box 616, Juneau, $153,695; Keil & Peterman, Box 770, Juneau, $169,893; United General Constructors, Box 397, Seattle, Wash., $174,864.

Project consists of redecking Wadleigh Creek Bridge, Mile 12.8 Glacier Highway; constructing Switzer Creek Bridge, Mile 6.3 Glacier Highway; constructing Montana Creek Bridge, Mendenhall Loop Road; all near Juneau.

Quantities: 6,450 c.y. borrow excavation, Case 2; 1,288' concrete piles cast in steel shells; 368.6 c.y. class A concrete; 63,790 lb. reinforcement steel, intermediate grade; 29,418 MBM treated timber, creosote preservative. JU 11-8. Previous report 10-21

★GRADING, DRAINING— Juneau, Alaska

Award to Patti-MacDonald Construction Co., Pouch 5, Anchorage, $157,046 by Bureau of Public Roads, 319 Federal Bldg., Juneau for grading and draining 0.9 mi. of Glacier Highway, Thane Extension, beginning 0.5 mi. southeast of Sheep Creek, Alaska; Proj. DS-0975(1). AL 11-11. Previous report 11-5

▲MODIFY TANK SYSTEM— King Salmon AFB, Alaska

Three bids were opened November 5 by U.S. Air Force, base procurement office, Bldg., T22-057, Elmendorf Air Force Base for modification of POL tanks system at King Salmon Air Force Station, Alaska; IFB 65-501-59-38. BIDS: Alaska Plumbing and Heating Co., 621 E. 5th Ave., Anchorage, $86,980; C. R. Lewis Co., 525 E. 4th, Anchorage, $115,329; S. S. Mullen Co., 646 Holgate, Seattle, $135,000. Government estimate $40,000. AL 11-11. Previous report 10-7

NORTHERN CALIFORNIA

●DRAINAGE IMPROVEMENTS— Almaden AFS, Calif.

Bid opening extended from November 6 to 11 a.m., November 20, by Corps of Engineers, room 300, 180 New Montgomery St., San Francisco, for drainage improvements, Almaden Air Force Station, Santa Clara County, Calif.; ENG-04-203-59-16. Work includes construction of reinforced concrete inlet, corrugated metal inlets, corrugated metal aprons with embankment protectors, lined and unlined ditches, clearing and grubbing, excavation, access road, and relay three existing storm drains. Specs with above address. Bid bond 20%. Completion time 60 calendar days. RM 11-15. Previous report 11-1

▲PLANTMIX PAVING, SEWERS— Belmont, Calif.

Bids received by City Council, City Hall, Belmont, for grading, plantmix surfacing, roll type and vertical curbs and gutters, sewers, storm drains, Middle Road et al. Improvement District, Belmont, Calif. Engineers: Murphy and Hastings, 650 El Camino Real, Redwood City. BIDS: The Lowrie Paving Co., Inc., 174 San Bruno Rd., South San Francisco, $64,717; Bragato Paving Co., 500 Bragato Rd., Belmont, $73,327; L. C. Smith Co., 225 19th Ave., San Mateo, $75,610. Engineer's estimate $65,034. RM 11-15

★IRRIGATION CANAL— Fairfield, Calif.

Award to McGuire and Hester, 796 66th Ave., Oakland, $357,357, by Solano Irrigation District, Fairfield, for construction of 5.6 mi. of main canal, 14 mi. of lateral canal and 3.8 mi. of drainage canal, the first project in the Irrigation District's distribution system. Bids opened September 30. RM 11-15

●HIGH SCHOOL SITE WORK— Hillsborough, Calif.

Bids will be opened 4 p.m., November 18, by Board of Trustees, San Mateo Union High School District, 650 N. Delaware St., San Mateo, for removal of 200,000 c.y. of surplus overburden to become property of the contractor, cleaning, grading, and drainage work on the Hillsborough High School site, west of Alameda de las Pulgas and approximately between Notre Dame and Hobart Avenues in Hillsborough, San Mateo County. Plans with John Lyon Reid & Partners, architects, 1019 Market St., San Francisco. $25 deposit. Certified check or bid bond $10,000. BY 11-15

★LEVEE— Lake County, Calif.

Award to Ferry Bros., 5201 San Fernando Road, Glendale, $1,149,142, by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for levee construction and channel improvement, Middle Creek Project, Lake County, Calif.; CIVENG-04-167-59-22. Bids opened November 6. RM 11-15. Previous report 11-1

★SANITARY SEWER— Millbrae, Calif.

Award to McGuire and Hester, 796 66th Ave,. Oakland, $33,333, by City Council, City Hall, Millbrae, for construction of a sanitary sewer, manholes and appurtenances, Meadows Improvement District, Millbrae; Res. 124. Bids opened November 4. RM 11-15. Previous report 10-18

★GROUNDS IMPROVEMENT— Morrow Cove, Calif.

Award to Ralanco, 1715 Louisiana St., Vallejo, $17,185, by State Department of Public Works, Administration Bldg., Sacramento, for grounds improvement at residence hall and administration building at California Maritime Academy, Morrow Cove, Solano County. RM 11-15

★SITE DEVELOPMENT— Oakland, Calif.

Award to Watkin & Sibbald, 6 Bridge St., San Anselmo, $106,784 (base bid + 3 alts.), by Oakland Recreation Commission, Municipal Auditorium Bldg., Oakland, for site development at Brookfield Recreation Center, Oakland. Bids opened October 29. RM 11-15. Previous report 10-25

★CULVERT, RETAINING WALL— Oakland, Calif.

Award to William H. Morrison and Morrison Construction Co., 1231 Oxford St., Berkeley, $29,410, by City Council, City Hall, Oakland, for construction of a corrugated metal and reinforced concrete culvert and a rubble retaining wall in Arroyo Viejo Creek, Arroyo Viejo Park, Oakland. Completion time 45 working days. Bids opened October 23. RM 11-15

★SEWERS— Oakland, Calif.

Award to Jardim and Rodrigues, 9831 Burr St., Oakland, $165,175, by City Council, City Hall, Oakland, for constructing sewers in Beaconsfield Place, Chelsea Drive, Chelton Drive, Clive Ave., Darnby Drive, Haverhill Drive, Longcroft Drive, Longwalk Drive, and certain paths, reserves and rights of way in Piedmont Pines and Smith Reserve tracts, Oakland; Res. 37387. RM 11-15. Previous report 11-1

★SLIDE GATES— Placerville, Calif.

Award to Monarch Forge and Machine Works, Inc., 2130 N.W. York, Portland, Ore., $14,018, by Sacramento Municipal Utility District, 1708 59th St., Sacramento, for furnishing and delivering two 4' by 4' slide gates and appurtenant operating equipment for Ice House Dam Outlet Works, Upper American River Project, near Placerville, El Dorado County, Calif. Bids opened October 21. PB 11-15. Previous report 9-27

▲RAILROAD AND HIGHWAY SIPHON— Red Bluff, Calif.

Bids were opened November 6 by Bureau of Reclamation, Box 752, Red Bluff, for constructing railroad and highway siphon, Corning Canal Sta. 34+93 BK to Sta. 39+50 BK, Sacramento Canals Unit, Central Valley Project, Calif., located near Red Bluff, Tehama County; Spec. No. DC-5114. Work includes earthwork, excavation, lining tunnel, laying or jacking pipe, construction of monolithic-concrete siphon structures. LOW BIDS: E-W Construction Co., 3170 11th Ave. W., Eugene, Ore., $133,507; McGuire and Hester, 796 66th Ave., Oakland, $141,141; Peerless Concrete Pipe Corp., Box 384, Santa Ana, $147,076. Engineer's estimate $119,454. RM 11-15. Previous report 10-11

EXCAVATION, DRAINAGE, BITUMINOUS SURFACING— Redding, Calif.

Bids will be called in January 1959 by Bureau of Reclamation, Box 247, Lewiston, for relocation of Trinity County road, Ridgeville to Covington Mill, Trinity River Division, Central Valley Project, Calif. Work is located about 40 mi. northwest of Redding. As weather conditions may make examination of the site difficult at the time of bid call, prospective bidders are invited to inspect the site in the immediate future. Arrangements may be made with L. B. Ackerman, project construction engineer, Box 247, Lewiston. Completion time: 540 days.

Quantities: 800,000 c.y. excavation; 5,000' corrugated metal pipe, 12" to 60"; 170' multiple plate corrugated metal pipe, 96"; 54,000 ton crushed-rock subbase; 16,000 ton crushed rock base; 2,300 ton cover coat material, 170 ton liquid asphalt for bituminous surface treatment. RM 11-15

★SEWERS— Richmond, Calif.

Award to McGuire & Hester, 796 66th Ave., Oakland, $18,718, by City Council, City Hall, Richmond, for laying 6" clay sewer pipe on Tenth St. south of Wright St. in Richmond. Bids opened November 4. SF 11-15

STATE HIGHWAY PROJECT— Sacramento, Calif.

The bid opening scheduled for November 19 has been cancelled by California Division of Highways, 510 Public Works Bldg., Sacramento, for installing a field assembled plate and metal liner plate culvert 0.7 mi. east of Broadway Tunnel, Contra Costa County; IV-CC-75-A. Bids will be readvertised at a later date. RM 11-15. Previous report 11-1

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened October 22.

I-LAK-1041—Construct bridge across Middle Creek, Elk Mountain Rd., 5 mi. north of Upper Lake, Lake County. AWARD: Clifford & Bodenhamer, Box 664, Redwood City, $60,145.

IV-CC-1255—Grading, plantmix surfacing on untreated base, 1.8 mi., Wilbur Ave. between AT and SF overhead and Bridgehead Rd., Contra Costa County. AWARD: Antioch Paving Co., Inc., Box 640, Antioch.
PB 11-15. Previous report 10-25

★STATE HIGHWAY PROJECTS—
Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened October 15.

I-LAK-1247—Grading, placing untreated base, medium seal coating, 1.7 mi., Soda Bay Rd. between Soda Bay and Clark Drive, Lake County. AWARD: Wright Bros., Route 1, Box 226, Gridley, $113,305.

I-TRI-20-C,D—Grading, plantmix surfacing, drainage structures, bank protection, 0.3 mi., three locations between east of Humboldt County line and east of Burnt Ranch Post Office, Trinity County. AWARD: Mercer, Fraser Co., 2nd and Commercial, Eureka, $170,068. PB 11-15. Previous report 10-18

★PLANTMIX PAVING, SIDEWALKS, SEWERS— Sacramento, Calif.

Award to Asta Construction Co., 33 N. Front St., Rio Vista, $77,627, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for improvement of Winding Way from San Juan Ave. to Pennsylvania Ave., Sacramento County. Work includes plantmix surfacing, rolled type curbing, concrete sidewalks, sewers.
PB 11-15. Previous report 11-8

▲ASPHALTIC CONCRETE PAVING, GUTTERS, SEWERS, WATER DISTRIBUTION SYSTEM— Sacramento, Calif.

Bids opened November 6 by City Council, City Hall, Sacramento, for grading, excavating, asphaltic concrete paving, concrete gutters, sewers, and water distribution system in Sacramento Central Manufacturing District Unit No. 1; Res. 3269. LOW BIDS: Granite Construction Co., Box 900, Watsonville, $106,829; Krpan Trenching Co., Box 144, Perkins, $109,225; McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $119,257.
PB 11-15. Previous report 10-25

▲SEWAGE TREATMENT PLANT, SEWERS Sacramento, Calif.

Bids received November 12 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for sewage pumping and treatment plant, including site work, access road, and appurtenances, and trunk sewers in Highland Estates Sewer Assessment District, Sacramento County. Engineer: Joseph Spink, 907 5th St., Sacramento.

LOW BIDS: Wm. H. Schallock, Inc., 217 Daniels Lane, Bakersfield, $324,375; John H. McCosker, Inc., 1501 Eastshore Highway, Berkeley, $324,851; Lawrence Construction Co., 3020 V St., Sacramento, $337,292.
PB 11-15. Previous report 11-8

▲CURBS, OUTSIDE UTILITIES— Sacramento, Calif.

Bids opened November 5 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for improvement of Verne Tract Units 1 and 2, Sacramento County. Engineers: Packard, Muir and Train, 3260 J St., Sacramento. LOW BIDS: A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $168,242; Granite Construction Co., Box 900, Watsonville, $169,607; Brighton Sand and Gravel Co., Box 1, Perkins, $201,302.
PB 11-15. Previous report 11-1

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids will be opened 2 p.m., December 3, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects. Specs with state highway engineer, above address.

IV-ALA-69-OAK—Prepare and plant 2.1 mi. between Market St. and distribution structure in Oakland, Alameda County.

IV-CC-107-A—Restore storm-damaged portions of roadbed, three locations, install drainage facilities, between 2.4 mi. north of Alameda County line and 0.5 mi. south of Walnut Creek, Contra Costa County.

IV-SM-2-BMT—Traffic signal system, highway lighting, channelization, plantmix surfacing, on El Camino Real at Harbor Blvd., Belmont, San Mateo County. PB 11-15

▲PAVING, CURBS, SIDEWALKS, SEWERS Sacramento, Calif.

Bids received November 12 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for paving, curbs, sidewalks and sewers, Valkyrie Assessment District, Sacramento County. Engineers: Bailiff and Butz, 8020 Fair Oaks Blvd., Sacramento.

LOW BIDS: Brighton Sand and Gravel Co., Box 1, Perkins Branch, Sacramento; A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento; McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $18,573.
PB 11-15. Previous report 11-1

▲STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids received November 12 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects.

I-HUM-977—Repair storm-damaged portion of two-lane highway, 1.7 mi., grading, untreated base surfacing, drainage facilities, Briceland-Thorne Rd. between 5.5 mi. east of Shelter Cove Rd. and west boundary of Humboldt Redwoods State Park, 2 mi. west of Redway, Humboldt County.

LOW BIDS: John Burman & Sons, 3022 G St., Eureka, $118,430; Sierra Construction Co., Box 983, Merced, $119,769; E. A. Forde Co., Box 306, San Anselmo, $132,983.

I-HUM-970-971-975—Plantmix surfacing on untreated base and existing base, drainage facilities, 5.1 mi. at three locations, on Elk River Rd. between 1 mi. south and 2.5 mi. south of Eureka, on Kneeland Rd. between Freshwater, 3.9 mi. southeast of Fortuna and Hydesville, Humboldt County.

LOW BIDS: Mercer Fraser Co., 2nd and Commercial, Eureka, $156,181; Arthur B. Siri, Inc., 1357 Cleveland Ave., Santa Rosa, $169,809.

IV-ALA-1026—Plantmix surfacing on cement treated base and imported subbase material, 0.8 mi., Alvarado-Niles Rd. between Decoto Rd. and Fremont city limits, Alameda County.

LOW BIDS: Ransome Co., 4030 Hollis, Emeryville, $75,555; Krull & Pacheaco, 107 Niles Road, Decoto, $76,882; Lee J. Immel, 13555 San Pablo Ave., San Pablo, $77,410.

IV-SCR-1145—Plantmix surfacing on untreated base, 0.5 mi., Soquel-San Jose Rd. between Soquel Drive and 0.5 mi. north, Santa Cruz County.

LOW BIDS: Granite Construction Co., Box 900, Watsonville, $49,643; Bragato Paving Co., 500 Bragato Road, Belmont, $56,438; Oscar C. Holmes, Inc., 927 Arguello St., Redwood City, $58,481.

III-NEV-SIE-25,83-AB — Construct loadometer stations 0.6 mi. west of Nevada City and 0.5 mi. west of Sierraville, Nevada and Sierra counties.

LOW BIDS: G. S. Herrington, Box 708, Auburn, $12,649; American Paving Co., Reno, $16,186; Pyramid Construction Co., 29 E. 1st, Reno, Nev., $16,590.

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II-SHA-STATE PARK — Grading, plantmix surfacing on imported base material, parking area and 1 mi. F roadway, construct concrete boat ramp at McArthur-Burney Falls Memorial State Park, Shasta County.

LOW BIDS: Smith-Wehner Co., Inc., 4663 E. Hedges, Fresno, $32,346; Trinity Construction Co., Box 1642, Redding, $34,970; Claud L. Youngs, 5910 Spruce Ave., Sacramento, $39,070.

IV-SCL-616—Correct slipout, reconstruct road, 0.2 mi., Summit Rd. at 0.4 mi. south of State Rt. 5 AJ, Santa Clara County.

LOW BIDS: Bragato Paving Co., 500 Bragato Road, Belmont, $79,663; San Ardo Contractors, Inc., Box 315, San Ardo, $83,431; Oscar C. Holmes, Inc., 927 Arguello St., Redwood City, $85,208.

IV-MRN-STATE PARK—Construct entrance road and bridge, grade parking areas, install water systems, construct kiosk, Stinson Beach State Park, Marin County.

LOW BIDS: Ghilotti Bros. Inc., 629 San Francisco Blvd., San Rafael, $79,796; Oliver De Silva, 2333 Eden Road, San Leandro, $81,095; Bragato Paving Co., 500 Bragato Road, Belmont, $85,899.
PB 11-15. Previous report 11-1

●STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids will be opened 2 p.m., December 10, by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects. Plans with state highway engineer, above address.

V-MON-56-I—Grade, plantmix surface on cement treated base, construct reinforced bridge, 0.9 mi., four-lane divided highway, between Carpenter St. and south city limit of Monterey, Monterey County.

IV-SCL-114,SAR,SJS,A — Plantmix surfacing over existing surfacing, 3.6 mi. between Rt. 42 and 0.1 mi. south of Bollinger Rd., Santa Clara County. PB 11-15

★TAXIWAY SHOULDERS— San Francisco, Calif.

Award to O. C. Jones and Sons, 1520 4th St., Berkeley, $167,750, by San Francisco Public Utilities Commission, City Hall, San Francisco, for construction of taxiway shoulders at San Francisco International Airport (Airport Dept. Contract No. 226). SF 11-15

★EMERGENCY LEVEE REPAIRS— San Joaquin County, Calif.

Award to M. Malfitano & Son, Inc., Box 750, Pittsburg, $26,925, by Corps of Engineers, 305 Wright Bldg., Sacramento, for emergency levee repairs, right bank Mormon Slough, left bank Stockton Diverting Canal, and left bank Calaveras River in San Joaquin County, Calif.; CIVENG-04-167-59-40.
RM 11-15. Previous report 11-1

★SEWERS— San Tomas, Calif.

Award to M. Miller Co., 877 N. Bunker Hill Ave., Los Angeles, $261,555, by Santa Clara County Sanitation District 4, 381 E. Campbell Ave., Campbell, for laying sewer lines in the San Tomas area. RM 11-15

★LEVEE— Sutter County, Calif.

Award to M. Malfitano & Son, Inc., Box 750, Pittsburg, $384,473, by Corps of Engineers, 305 Wright Bldg., Sacramento, for levee construction, left bank Feather and Bear Rivers, from Nicolaus Bridge to Western Pacific Railroad Bridge, Sutter County, Calif.; CIVENG-04-167-59-5.
RM 11-15. Previous report 11-1

★GRADING, DRAINING— Weaverville, Calif.

Award to J. W. Briggs, 1825 California St., Redding, $418,656, by Bureau of Public Roads, 102 Old Mint Bldg., 5th and Mission Sts., San Francisco, for constructing Project California F.D.R. 6N19, Big Mountain, Shasta-Trinity National Forests, Trinity County, Calif. Work includes grading and draining Rt. 6N19 from junction with U. S. 299, 20 mi. west of Weaverville extending northwest 7.175 mi.
RM 11-15. Previous report 10-11

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

BRIDGE

BIDS CLOSE 2 P.M., P.S.T., NOVEMBER 25

Snohomish County, Wash.

NOTICE TO CONTRACTORS

Sealed bids for construction of Beckler River Bridge on Snoqualmie National Forest, Snohomish County, Washington, will be received until 2:00 p.m., P.S.T., Nov. 25, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, 905 Second Ave. Bldg., Seattle, Washington. Project includes approx. 100 cu. yds. concrete, and 26,000 lbs. reinforcing steel.

6344—11-6

WATER SYSTEM

BIDS CLOSE 2 P.M., P.S.T., DECEMBER 2

Quinault Ranger Station, Washington

NOTICE TO CONTRACTORS

Sealed bids for installation of domestic water system at Quinault Ranger Station, Olympic National Forest, Wash., will be received until 2.00 p.m., PST, Dec. 2, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, Post Office Bldg., Olympia, Wash.

6348—11-11

STATE HIGHWAY PROJECT

BIDS TO BE CALLED LATER

Olympia, Washington

NOTICE TO CONTRACTORS

It is the intention of the Department of Highways to advertise for bids for the following project at a later date when snow may cover the ground.

1. Clearing, Draining, Grading and Surfacing with Selected Roadway Borrow on 1.100 miles of a Chelan County Road, SOUTH LAKESHORE ROAD.

Contractors interested in bidding on this work are urged to secure informational plans and view the proposed work on the ground at this time since snow can be expected to make this inspection uncertain and difficult in the near future.

Informational plans giving approximate quantities for use on this inspection may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such informational plans as a rental for the use of them. At such time as the project is advertised for bids, those holding informational plans, if prequalified in sufficient amount in the proper class of work, will be furnished with the bidding proposal, page one of the special provisions and all revised sheets.

Informational plans are on file in the office of the County Engineer of the County in which the work is situated, the chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways

6349—11-15, 22

GRADING, DRAINING, PAVING

BIDS CLOSE 11 A.M., P.S.T., NOVEMBER 21

Anchorage, Alaska

NOTICE TO CONTRACTORS

October 31, 1958, Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment, materials and performing all work for Project DS-DUS-0536(2), Northern Lights Blvd., and Project DS-DUS-0547(3), Lake Otis Road, at Anchorage, Territory of Alaska, described herein, will be received until 11:00 a.m., PST, November 21, 1958, in Room 319, Federal Building, Juneau, Alaska. The projects consist of grading, drainage and paving of 2.2 miles of Northern Lights Boulevard and 1.0 mile

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of Lake Otis Road, beginning at Spenard Road and ending at Tudor Road, Anchorage, Alaska. Principal items of work consist of the following: unclassified excavation—41,750 cubic yards; crushed aggregate base, grading D-1—21,500 tons; hot bituminous concrete pavement—5,010 tons; asphalt cement, 120-150 penetration—301 tons; concrete curb and gutter, 6" depth—2,241 lineal feet. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6343—11-8, 15

PAVING

BIDS CLOSE 11 A.M., P.S.T., NOVEMBER 21

Homer, Alaska

NOTICE TO CONTRACTORS

November 4, 1958, Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment, materials and performing all work for Project F-DF-021-1(6), Homer City Paving, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., November 21, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of grading, drainage and paving of 2.7 miles of the Sterling Highway in the Community of Homer, beginning near the Homer School and ending on the Homer Spit. Principal items of work consist of the following: unclassified excavation — 30,500 cubic yards; borrow excavation, Case 2—50,000 cubic yards; crushed aggregate base, Grading D-1—14,000 tons; aggregate, designation AT-50, bituminous surface treatment—1,050 tons; 29"x18" bituminous-coated corrugated metal pipe arch—1,276 lineal feet. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Anchorage, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and conforming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a bid bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6345—11-8, 15

STATE HIGHWAY PROJECTS

BIDS CLOSE 9 A.M., NOVEMBER 19

Helena, Montana

NOTICE TO CONTRACTORS

Sealed bids on the following projects will be received by the Montana Highway Commission at the offices of said Commission in the City of Helena until 9:00 a.m. on November 19, 1958. The proposals will be publicly opened and read immediately thereafter. Your attention is directed to the 9:00 a.m. hour set for the opening of bids in Room 151 of the State Highway Department Building.

The **Form for Bid Bond** is no longer included in the "Instruction to Bidders" and no Bid Bond will be acceptable. No proposal will be considered unless accompanied by a proposal guaranty, in an amount of at least five (5) per cent of the bid, made unconditionally payable to the State Highway Commission of Montana, which at the bidder's option may be cash, cashier's check, certified check, bank, postal or express money order, or bank draft.

1. **I-15-5(9)275 Unit 1**—Grade, aggregate surfacing, plant-mix bituminous surfacing, seal-coat oiling, and drain 8.337 miles on the Sun River-Great Falls Road in Cascade County, involving about 2,860,399 cu. yds. excavation; 912,745 mi. yds. overhaul; 9,077 units rolling; 58,009 M gals. watering; 147 hours watering; 334,562 tons crushed aggregate; 427.452 tons uncrushed aggregate; 4,218.77 tons penetration asphalt; 568.84 tons cutback asphalt; 474.80 tons emulsified asphalt; 76,627 tons plant mix; 876 lin. ft. remove concrete curb; 100 lin. ft. relay pipe culverts; 604 cu. yds. gravel backfill; 431 lin. ft. structural plate pipe; 5,548 lin. ft. reinforced concrete pipe; 5,779 rods metal posts wire fence; 162 each metal fence panels; 33,850 lin. ft. guard rail-concrete posts; 293.4 sq. yds. concrete pavement; 988 lin. ft. concrete median curb; 21 each inlet covers; all lump sum weigh station; all lump sum conduit system; 249 lin. ft. jiggle bars; and other items. Project to be completed in 380 calendar days.

2. **I 15-5(9)275 Unit 2**—The construction of one 108.0' dual and one 218.9' single concrete structure, and three 17.25' concrete junior-grade separations on the Sun River-Great Falls Road in Cascade County, involving about 1,260 lin. ft. precast prestressed concrete beam; 1,935 cu. yds. structure excavation; 1,929.8 cu. yds. concrete; 219,064 lbs. reinforcing steel; all lump sum structural steel; all lump sum treated timber test piles; 11,350 lin. ft. furnishing treated timber piles; 10,958 lin. ft. driving treated timber piles; 550.42 lin. ft. steel beam bridge rail; 440 lin. ft. steel bridge rail; and all lump sum conduit system. Project to be completed by October 31, 1959.

3. **FG 95(11) Unit 2**—Construction of one 311.5' steel and concrete highway overpass over the Great Northern Railway, approximately 3.5 miles west of the City of Havre on the Gildford-Havre East Road in Hill County, involving about 555 lin. ft. precast prestressed concrete beam; 415 cu. yds. structure excavation; 559.5 cu. yds. concrete; 77,697 lbs. reinforcing steel; all lump sum structural steel; all lump sum treated timber test piles; 7,700 lin. ft. furnishing treated timber piles; 7,623 lin. ft. driving treated timber piles; 620.5 lin. ft. steel bridge rail. Project to be completed by November 30, 1959.

4. **DF 333(21) & F 333(22)**—Soil cement stabilized base course, plant-mix bituminous surfacing, and seal-coat oiling 12.936 miles on the Grass Range-Malta Road in Fergus County, involving about 165 units rolling; 2,300 M gals. watering; 125 hours watering; 2,499 tons crushed aggregate; 1,807.97 tons asphalt cement; 189.89 tons cutback asphalt; 239.83 tons emulsified asphalt; 32,870 tons plant-mix bituminous surfacing, Type II ¾"; 130 hours use of motor grader; 21,421 bbls. Portland cement; 233,133 sq. yds. processing soil cement 7"; 55,597 cu. yds. soil aggregate; and 1,673 tons blotter material. Project to be completed in 100 calendar days.

5. **S 260(1)**—Grade, aggregate surfacing, and drain 11.412 miles on the Lodge Grass-St. Xavier Road in Big Horn County, involving about all lump sum clearing and grubbing; 600,361 cu. yds. excavation; 48,579 mi. yds. overhaul; 1,609 units rolling; 11,014 M gals. watering; 100,987 tons crushed aggregate; 1,020 lin. ft. relay pipe culverts; 355 cu. yds. gravel backfill; 6,828 lin. ft. corrugated metal pipe; 382 lin. ft. structural plate pipe; 22 lin. ft. reinforced concrete pipe; 4,392 yds. mile-haul binder; 2,196 cu. yds. binder; and 29 each metal headgates. Project to be completed in 250 calendar days.

6. **S 274(2)**—Grade, aggregate surfacing, and drain 3.368 miles on the Red Lodge—West Road in Carbon County, involving about 29.80 acres clearing and grubbing; 325,519 cu. yds. excavation; 73,567 mi. yds. overhaul; 161 units rolling; 5,682 M gals. watering; 40,332 tons crushed aggregate; 100 lin. ft. relay pipe culverts; 100 cu. yds. gravel backfill; 2,442 lin. ft. corrugated metal pipe; 902 yds. mile-haul binder; 451 cu. yds. binder; and other items. Project to be completed in 120 calendar days.

7. **SMP 2199**—Crushing and stockpiling crushed aggregate on various roads in Blaine, Hill, Glacier, and Pondera counties, involving about 455,250 tons mi. haul of Type "A" top surfacing and cover material; 111,750 tons stockpiled Type "A" top surfacing, ⅝"; and 21,000 tons stockpiled cover material. Project to be completed by July 31, 1959.

8. **SPP 7512-05**—The improvement contemplated consists of the plumbing system and the septic tank for the latrine at the Lewis & Clark Cavern State Park in Jefferson County, involving the lump sum for the plumbing system and septic tank. Project to be completed by April 15, 1959.

Federal funds have been allocated to all Federal-aid projects.

Insofar as practicable, labor employed for all projects shall be obtained from the agencies designated by the Montana State Employment Service.

Should the successful bidder fail to enter into his contract and furnish a satisfactory performance bond within the time stated in his proposal, the bid deposit shall be forfeited to the State Highway Commission of Montana.

Prequalification of bidders, at least 72 hours prior to the opening of bids, is required.

Plans, specifications, forms of contract and bond, proposal blanks, and full instructions are on file for examination and may be obtained at the offices of the State Highway Commission in Helena, Montana. Plans and specifications for all Federal-aid projects are also on file and may be examined in the offices of the Bureau of Public Roads at Helena, Montana.

Harry L. Burns, Chairman

Fred Quinnell, Jr., State Highway Engineer
6339—11-8, 15

OFFICE

BIDS CLOSE 2 P.M., P.S.T., DECEMBER 1

Hemlock Ranger Station, Washington

NOTICE TO CONTRACTORS

Sealed bids for construction of a dual office at Hemlock Ranger Station on the Gifford Pinchot National Forest, Skamania County, Wash., will be received until 2:00 p.m., P.S.T., Dec. 1, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, 801 West 8th St., Vancouver, Wash. A tour of the site will start from the Hemlock Ranger Station at 10:30 a.m., Nov. 18, 1958.
6347—11-8

RESIDENCE

BIDS CLOSE 2 P.M., P.S.T., NOVEMBER 26

Randle Ranger Station, Washington

NOTICE TO CONTRACTORS

Sealed bids for construction of a residence at Randle Ranger Station on the Gifford Pinchot National Forest, Lewis County, Wash., will be received until 2:00 P.M., P.S.T., Nov. 26, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or the Forest Supervisor, 801 West 8th St., Vancouver, Wash. A tour of the site will start from the Randle Ranger Station at 10:30 A.M., Nov. 17, 1958.
6346—11-7

GRADING, DRAINING, PAVING

BIDS CLOSE 11 A.M., NOVEMBER 21

Anchorage, Alaska

NOTICE TO CONTRACTORS

October 29, 1958, Department of Commerce, Bureau of Public Roads, Region 10. Sealed bids in single copy for furnishing all labor, equipment, materials and performing all work for Project DS-DUS-0546(2), East Fifth Avenue, Anchorage, Territory of Alaska, described herein, will be received until 11:00 a.m., P.S.T., November 21, 1958, in Room 319, Federal Building, Juneau, Alaska. The project consists of grading, drainage and paving 1.7 miles of East Fifth Avenue, Anchorage, beginning at Gambell Street and ending 215 miles north of the Glenn Highway and Airport Heights Road intersection. Principal items of work consist of the following: unclassified excavation—76,140 cubic yards; crushed aggregate base, grading D-1—15,900 tons; hot bituminous concrete pavement—6,800 tons; asphalt cement, 120-150 penetration—410 tons; concrete curb and gutter, 6" depth—15,350 lineal feet. Plans and specifications may be obtained free of charge by all who have a bonafide need for them for bidding purposes at Room 311, Federal Building, Juneau, Alaska. It is requested that plans be returned to the Division Engineer, Bureau of Public Roads, Fairbanks, Alaska. A bid guaranty in a minimum amount of 5% of the bid amount and con-

Bids will be opened . . .

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forming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6341—11-8

BRIDGE

BIDS CLOSE 2 P.M., NOVEMBER 20

Skamania County, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, November 5, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, Room 824, Morgan Building, 720 S.W. Washington Street, Portland 5, Oregon, until 2 p.m. on November 20, 1958, for furnishing the material and performing the work for constructing a 340 foot structural steel bridge, Washington Forest Development Road Project Gifford Pinchot N90-A, LEWIS RIVER ROAD, EAGLE CLIFF BRIDGE, Gifford Pinchot National Forest, Skamania County, Washington, involving 480 cu. yds. Excavation; 2,830 lin. ft. Structural Steel Piles; 529 cu. yds. Concrete; 74,000 lbs. Reinforcement Steel; 1,803 lin. ft. Steel Casing; 676 lin. ft. Steel Bridge Railing, and other small items of work. Plans, specifications and proposals may be obtained at the address shown above or by phoning CApitol 6-3361, Extension 460. B. M. FRENCH, Regional Engineer.
6340—11-8

GYMNASIUM AND AUDITORIUM ADDITIONS

BIDS CLOSE 10 A.M., P.S.T., NOVEMBER 26

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-238. Gymnasium & Auditorium Additions, Juneau, Alaska, October 1, 1958. Name and Location of Project, JUNEAU - DOUGLAS GYMNASIUM and AUDITORIUM, Project Aaa. 50-A-238, Juneau, Alaska. Department or Agency, Alaska Public Works, Office of Territiores, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1811, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time November 26, 1958 in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181 Juneau, Alaska, and then publicly opened and read aloud. **Information regarding bidding material, bid guarantee, and bonds** follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 6070 Interior Bldg., Washington 25, D.C.; and Associated General Contractors of America, offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, 129 S.W. Third Avenue, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within twenty (20) days** from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond and payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: GYMNASIUM & AUDITORIUM ADDITIONS, Project Aaa. 50-A-238, Juneau, Alaska. **Contract "A"**—The construction of a reinforced concrete and steel auditorium addition. An opportunity will be given in the bid documents of this project to permit a reduction in the base bids should both contracts be awarded to the same bidder. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
6310—10-11, 18, 25

BRIDGE

BIDS CLOSE 2 P.M., P.S.T., NOVEMBER 24

Skagit County, Washington

NOTICE TO CONTRACTORS

Sealed bids for construction of Boundary Bridge across Suiattle River on Mt. Baker National Forest, Skagit County, Washington, will be received until 2:00 p.m., P.S.T., Nov. 24, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or Forest Supervisor, Post Office Bldg., Bellingham, Wash. Project includes approx. 613 cu. yds. concrete and 117,000 lbs. reinforcing steel.
6342—11-5

EARTHWORK, STRUCTURES, SURFACING

BIDS CLOSE 2 P.M., P.S.T., DECEMBER 9

Lewiston, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5119) will be received at Lewiston, California until 2 p.m. Pacific Standard Time, December 9, 1958, for furnishing labor and materials for earthwork, structures and surfacing, relocation of Trinity County Roads, Stoney Creek to Ridgeville, California—Central Valley Project. Location near Redding, California in Trinity County. Principal items are 750,000 cu. yds. excavation; 700 cu. yds. concrete in bridge; 80,000 tons crushed rock base; and other work. Completion time 540 days. For particulars, address Bureau of Reclamation, P. O. Box 247, Lewiston, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6338—11-8

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., NOVEMBER 18

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, November 18, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from the office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for item No. 1.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Cement Treated Base, Paving with Asphaltic Concrete, Signing, Installing Illumination and Fencing on 2.282 miles of State Highways Nos. 1 and 5-K in Lewis County, SSH No. 5-K INTERCHANGE AND JCT. PSH No. 1 TO KLAUS, FAP No. I-5-2(35)68 and FAS No. S-0257(3), involving about 40 acres of Clearing, 168,520 cubic yards of Common Excavation and Borrow, 2,000 cubic yards of Top Soil, 5,940 cubic yards of yards of Top Soil, 5,940 cubic yards of Unsuitable Foundation Excavation, 11,300 tons of Crushed Surfacing, 43,000 tons of Selected Roadway Borrow, 2,100 tons of Crushed Cover Stone, 520 cubic yards of Prime Coat Aggregate, 161 tons of Asphalt Cement, 7,700 tons of Asphaltic Concrete, 2,700 barrels of Portland Cement, 10,500 tons of Cement Treated Base, 4,575 linear feet of Cement Concrete Gutter, 1,060 linear feet of Mountable Cement Concrete Curb, 218 cubic yards of Concrete, 35,960 pounds of Steel Reinforcing Bars, 2,814 linear feet of Concrete Pipe, 1,140 linear feet of Metal Pipe, 62 linear feet of Metal Pipe Arch, 1,400 linear feet of Beam Guard Rail, 262 Guide Posts, 2 lump sum bids for Signing, a lump sum bid for Illumination System, 4,330 linear feet of Wire Fence and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
2. Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Paving with Asphaltic Concrete and Cement Concrete on 0.310 mile of Primary State Highway No. 1 in Skagit County, KINCAID STREET TO DIVISION STREET IN MOUNT VERNON, a State Project, involving about 880 cubic yards of Unclassified Excavation, 1,100 cubic yards of Selected Roadway Borrow, 305 cubic yards of Crushed Surfacing, Crushed Cover Stone and Prime Coat Aggregate, 8 tons of Asphalt Cement, 920 tons of Asphaltic Concrete, 150 linear feet of Asphaltic Concrete Curb, 123 square yards of Cement Concrete Pavement and Driveway, 60 square yards of Cement Concrete Sidewalk, 382 linear feet of Cement Concrete Curb and Gutter, 80 linear feet of Concrete Pipe and other items.
3. Draining, Grading and Surfacing on 24.533 miles of Grant County Roads, BLOCK 85 FEEDER ROADS, a State Project, involving about 25 miles of Grading, 26,640 tons of Crushed Surfacing, 2,352 linear feet of Concrete Pipe, 1,788 linear feet of Metal Pipe, 15,402 linear feet of Standard Right of Way Fence and other items.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways
6337—11-1, 8

SUBSTATION

BIDS CLOSE 10 A.M., M.S.T., DECEMBER 4

Fort Peck, Montana

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5116) will be received at Glendive, Montana, until 10 a.m. Mountain Standard Time, December 4, 1958, for furnishing labor and materials for Stage 01 Additions to Dawson County Substation, Fort Peck Project, Montana. Location near Glendive, Montana. Principal items are excavation for addition to substation site—15,000 cu. yds.; Concrete—505 cu. yds.; Constructing addition to existing service building—lump sum; Furnishing and erecting steel structures—160,000 pounds; Furnishing and installing aluminum covers—5,000 pounds; and other work. Completion time 670 days. For particulars, address Bureau of Reclamation, P. O. Box 2553, Billings, Montana; P. O. Box 866, Glendive, Montana; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6336—11-8

forming to the requirements of Standard Form 22 shall be required with each bid. If the bidder fails to accompany his bid with the required bid guaranty, his bid will not be read or otherwise considered. Telegraphic notification of execution of a Bid Bond does not meet the above requirement of a bid bond accompanying a bid. E. H. Swick, Regional Engineer.
6341—11-8

BRIDGE

BIDS CLOSE 2 P.M., NOVEMBER 20

Skamania County, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF COMMERCE, BUREAU OF PUBLIC ROADS, November 5, 1958. SEALED BIDS will be received at the office of the Bureau of Public Roads, Room 824, Morgan Building, 720 S.W. Washington Street, Portland 5, Oregon, until 2 p.m. on November 20, 1958, for furnishing the material and performing the work for constructing a 340 foot structural steel bridge, Washington Forest Development Road Project Gifford Pinchot N90-A, LEWIS RIVER ROAD, EAGLE CLIFF BRIDGE, Gifford Pinchot National Forest, Skamania County, Washington, involving 480 cu. yds. Excavation; 2,830 lin. ft. Structural Steel Piles; 529 cu. yds. Concrete; 74,000 lbs. Reinforcement Steel; 1,803 lin. ft. Steel Casing; 676 lin. ft. Steel Bridge Railing, and other small items of work. Plans, specifications and proposals may be obtained at the address shown above or by phoning CApitol 6-3361, Extension 460. B. M. FRENCH, Regional Engineer.
6340—11-8

GYMNASIUM AND AUDITORIUM ADDITIONS

BIDS CLOSE 10 A.M., P.S.T., NOVEMBER 26

Juneau, Alaska

NOTICE TO CONTRACTORS

Project Aaa. 50-A-238. Gymnasium & Auditorium Additions, Juneau, Alaska, October 1, 1958. Name and Location of Project, JUNEAU - DOUGLAS GYMNASIUM and AUDITORIUM, Project Aaa. 50-A-238, Juneau, Alaska. Department or Agency, Alaska Public Works, Office of Territiores, Department of the Interior, by (Issuing office) Thomas G. Mooney, Director, Alaska Public Works, Office of Territories, Department of the Interior, Post Office Box 1811, Juneau, Alaska. **Sealed bids** in single copy for furnishing all labor, equipment, and materials and performing all work for the project described herein will be received until 10:00 A.M. Pacific Standard Time November 26, 1958 in the mailroom of the Office of the Director, Alaska Public Works, Office of Territories, Department of the Interior, 123 West Third Street, P. O. Box 1181 Juneau, Alaska, and then publicly opened and read aloud. **Information regarding bidding material, bid guarantee, and bonds** follows: Plans and specifications and other proposed contract documents are open for public inspection at the Director's office, Juneau, Alaska; at Room 6070 Interior Bldg., Washington 25, D.C.; and Associated General Contractors of America, offices as follows: Seattle Chapter, Construction Center, 215 West Harrison St., Seattle, Wash.; Mountain Chapter, 220 West Harrison St., Seattle, Wash.; Tacoma Chapter, 1605 Center St., Tacoma 3, Wash.; Portland Chapter, 129 S.W. Third Avenue, Portland, Oregon; and the Alaska Chapter, Anchorage, Alaska; at the Plan Bureau, 2413 Western Ave., Seattle, Wash.; and Builders Exchange Cooperative, 317 Builders Exchange Bldg., Portland, Oregon. A set of such documents may be procured from the office of the Director at Juneau, Alaska upon deposit of $25.00, all of which will be refunded upon the return of the plans and specifications in good condition **within twenty (20) days** from date of bid opening. Each bid must be accompanied by a satisfactory bid security (certified check or bid bond) in an amount not less than 5 per cent of the total bid in dollars and cents. No bid will be withdrawn until thirty days after the scheduled closing date for the receipt of bids. The successful bidder will be required to furnish a performance bond ond payment bond, each in the amount of 100 per cent of the contract price. The Government reserves the right to award a contract for the project on the basis of the acceptance of any or all of the alternates, whichever course is in the best interest of the Government. DESCRIPTION: GYMNASIUM & AUDITORIUM ADDITIONS, Project Aaa. 50-A-238, Juneau, Alaska. **Contract "A"**—The construction of a reinforced concrete and steel auditorium addition. An opportunity will be given in the bid documents of this project to permit a reduction in the base bids should both contracts be awarded to the same bidder. Information regarding liquidated damages (if any), payments, etc., is attached or made a part of the specifications. Bids shall be submitted on the forms furnished or copies thereof.
6310—10-11, 18, 25

BRIDGE

BIDS CLOSE 2 P.M., P.S.T., NOVEMBER 24

Skagit County, Washington

NOTICE TO CONTRACTORS

Sealed bids for construction of Boundary Bridge across Suiattle River on Mt. Baker National Forest, Skagit County, Washington, will be received until 2:00 p.m., P.S.T., Nov. 24, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon St., Portland, Oregon. Bids may be secured from him or Forest Supervisor, Post Office Bldg., Bellingham, Wash. Project includes approx. 613 cu. yds. concrete and 117,000 lbs. reinforcing steel.
6342—11-5

EARTHWORK, STRUCTURES, SURFACING

BIDS CLOSE 2 P.M., P.S.T., DECEMBER 9

Lewiston, California

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5119) will be received at Lewiston, California until 2 p.m. Pacific Standard Time, December 9, 1958, for furnishing labor and materials for earthwork, structures and surfacing, relocation of Trinity County Roads, Stoney Creek to Ridgeville, California—Central Valley Project. Location near Redding, California in Trinity County. Principal items are 750,000 cu. yds. excavation; 700 cu. yds. concrete in bridge; 80,000 tons crushed rock base; and other work. Completion time 540 days. For particulars, address Bureau of Reclamation, P. O. Box 247, Lewiston, California; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6338—11-8

STATE HIGHWAY PROJECTS

BIDS CLOSE 10 A.M., NOVEMBER 18

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, November 18, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from the office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for item No. 1.

The improvements for which bids will be received follow:

1. Clearing, Draining, Grading, Surfacing, Constructing Bituminous Surface Treatment and Cement Treated Base, Paving with Asphaltic Concrete, Signing, Installing Illumination and Fencing on 2.282 miles of State Highways Nos. 1 and 5-K in Lewis County, SSH No. 5-K INTERCHANGE AND JCT. PSH No. 1 TO KLAUS, FAP No. I-5-2(35)68 and FAS No. S-0257(3), ivnolving about 40 acres of Clearing, 168,520 cubic yards of Common Excavation and Borrow, 2,000 cubic yards of Top Soil, 5,940 cubic yards of Unsuitable Foundation Excavation, 11,300 tons of Crushed Surfacing, 43,000 tons of Selected Roadway Borrow, 2,100 tons of Crushed Cover Stone, 520 cubic yards of Prime Coat Aggregate, 161 tons of Asphaltic Cement, 7,700 tons of Asphaltic Concrete, 2,700 barrels of Portland Cement, 10,500 tons of Cement Treated Base, 4,575 linear feet of Cement Concrete Gutter, 1,060 linear feet of Mountable Cement Concrete Curb, 218 cubic yards of Concrete, 35,960 pounds of Steel Reinforcing Bars, 2,814 linear feet of Concrete Pipe, 1,140 linear feet of Metal Pipe, 62 linear feet of Metal Pipe Arch, 1,400 linear feet of Beam Guard Rail, 262 Guide Posts, 2 lump sum bids for Signing, a lump sum bid for Illumination System, 4,330 linear feet of Wire Fence and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
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ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways
6337—11-1, 8

SUBSTATION

BIDS CLOSE 10 A.M., M.S.T., DECEMBER 4

Fort Peck, Montana

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5116) will be received at Glendive, Montana, until 10 a.m. Mountain Standard Time, December 4, 1958, for furnishing labor and materials for Stage 01 Additions to Dawson County Substation, Fort Peck Project, Montana. Location near Glendive, Montana. Principal items are excavation for addition to substation site—15,000 cu. yds.; Concrete—505 cu. yds.; Constructing addition to existing service building—lump sum; Furnishing and erecting steel structures—160,000 pounds; Furnishing and installing aluminum covers—5,000 pounds; and other work. Completion time 670 days. For particulars, address Bureau of Reclamation, P. O. Box 2553, Billings, Montana; P. O. Box 866, Glendive, Montana; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.
6336—11-8

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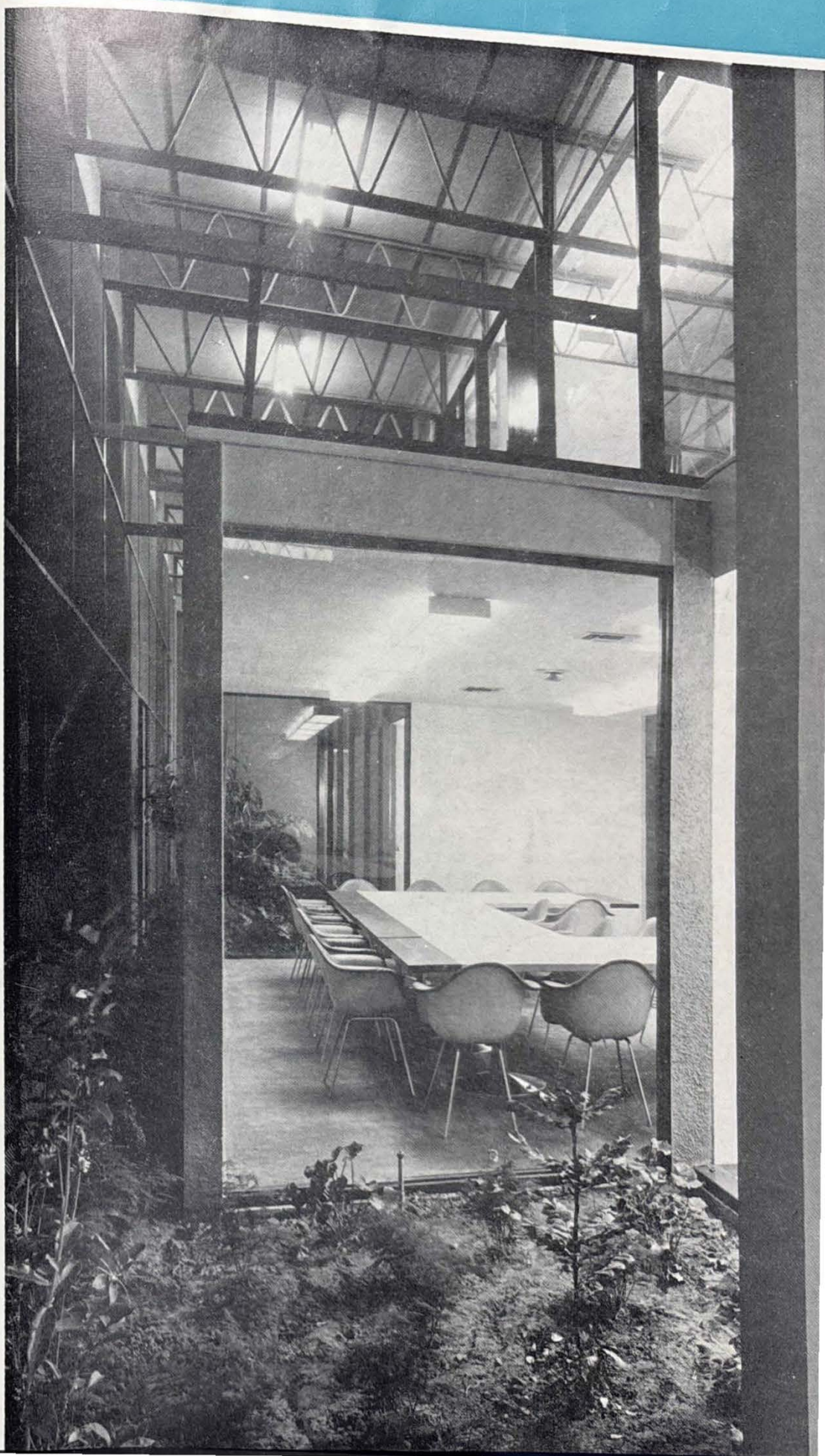

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pacific architect and builder

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THE COVER

Union Service Center, Local 887, UAW, Los Angeles. Smith & Williams, Architects; Marvin Rand photo.

BUILDING PERMITS

November tally tops year ago

Building activity in the West continues to ride the crest of the upturn which began several months ago. November dollar volume for the five states is $167,903,596, marking both an increase of $18¾ million over the corresponding period last year and the seventh straight month when the total has surpassed 1957 figures.

All states share in the increase, although by widely varied degrees. California is up $11½ million; Oregon, $2½ million; Montana, $2¼ million; Idaho, $1¾ million; and Washington, $½ million. The November total is considerably below October, normal procedure for this time of year.

By the end of November, tabulation shows a cumulative total of $2,428,434,675, a good $238½ million higher than the first 11 months of 1957. As the January through November figures below show, the increase ranges from $3½ million in Idaho to $127¼ million in California.

	Jan.-Nov. 1958	Jan.-Nov. 1957
Calif.	$1,906,337,718	$1,779,061,431
Oregon	160,050,511	110,671,686
Wash.	307,185,236	254,698,017
Mont.	27,317,596	21,508,877
Idaho	27,543,614	23,899,367

ANALYSIS OF TYPICAL AREAS — NOVEMBER

(Number of permits is followed by total dollar volume)

	Dwelling		Commercial & Industrial		Public	
Portland	57	$1,175,100	12	$ 343,390	6	$570,000
King County	538	6,465,290	35	379,935	6	356,000
Seattle	418	2,049,049	128	1,152,540	1	40,000
Tacoma	68	354,880	23	172,550		
Los Angeles County	1,349	8,854,687	259	2,208,970	12	470,800
Orange County	204	2,668,667	22	194,859		
Sacramento County	702	7,263,256	60	388,710	3	75,950

Building Permit Totals for 116 Western Agencies for November

CALIFORNIA	Nov. 1958	Oct. 1958	Nov. 1957
Alameda County	$ 1,075,900	$ 1,208,050	$ 4,250,950
Anaheim	2,372,688	4,636,426	3,460,845
Bakersfield	931,425	761,416	627,490
Burbank	630,243	1,634,559	1,274,067
Contra Costa County	2,621,008	3,234,571	2,561,834
Fresno	1,232,850	1,027,134	427,105
Fullerton	2,375,236	2,062,417	737,841
Glendale	1,341,619	1,159,514	918,780
Inglewood	520,841	1,068,695	540,835
Long Beach	3,912,655	4,964,830	2,815,080
Los Angeles	25,886,180	40,650,677	32,556,340
Los Angeles County	12,047,312	21,414,262	15,423,695
Oakland	2,378,073	4,448,277	2,149,381
Ontario	385,079	758,544	560,027
Orange County	3,041,836	2,816,174	4,453,689
Palo Alto	797,089	1,018,093	452,084
Pasadena	1,542,556	1,817,610	1,378,737
Pomona	918,429	407,844	1,411,499
Richmond	919,838	519,514	572,255
Riverside	2,446,034	1,687,169	795,048
Sacramento	2,859,177	6,628,267	1,636,866
Sacramento County	7,824,044	12,733,179	4,771,129
San Bernardino	1,057,342	2,421,829	806,409
San Bernardino County	4,350,372	6,436,561	4,059,411
San Diego	14,166,742	15,072,689	12,467,244
San Diego County	6,017,500	9,700,500	3,809,300
San Francisco	6,220,152	4,020,550	3,064,591
San Jose	4,344,784	9,714,265	4,143,175
San Mateo	671,247	1,615,487	653,416
San Mateo County	1,038,655	3,326,931	1,149,012
Santa Ana	2,488,634	1,025,722	626,465
Santa Monica	1,190,120	1,658,816	1,332,529
Stockton	1,296,857	2,024,239	386,967
Sunnyvale	10,076,065	1,608,828	2,857,350
Torrance	377,419	1,548,805	1,438,643
West Covina	1,251,455	1,384,877	449,770
TOTAL	**$132,607,456**	**$178,217,321**	**$121,019,618**

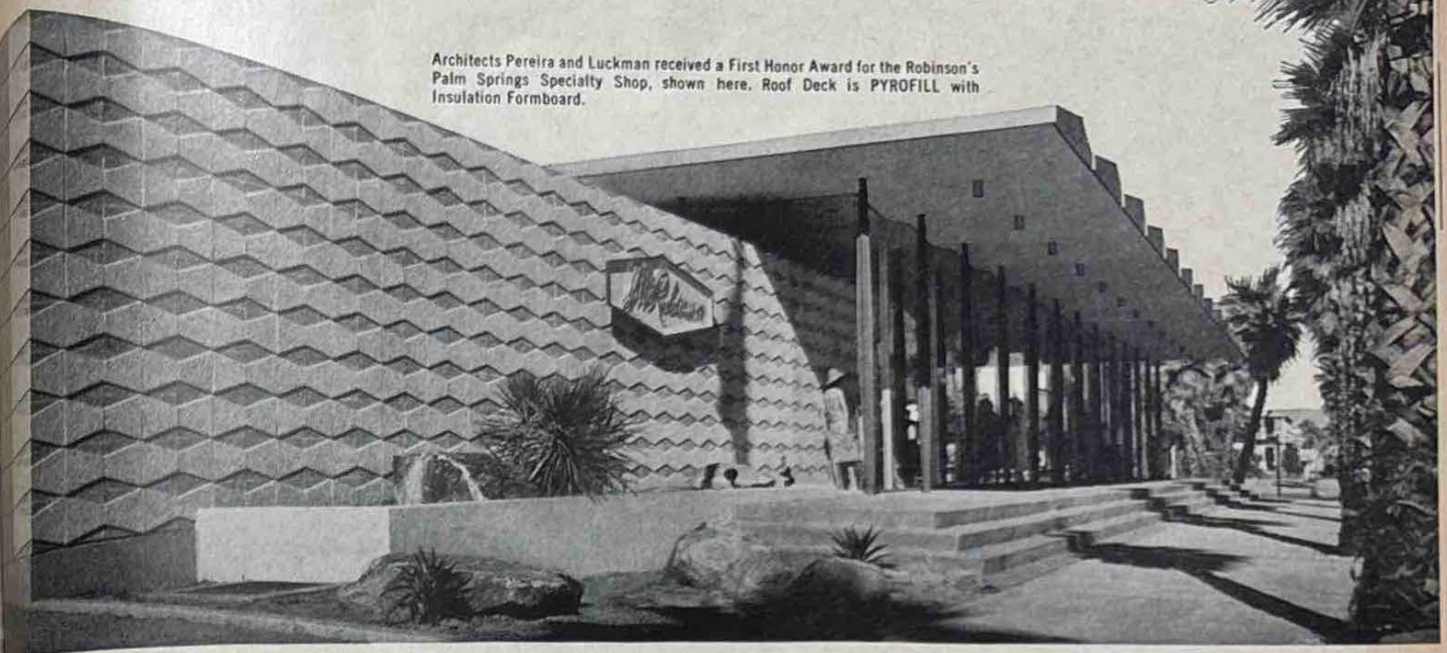
OREGON	Nov. 1958	Oct. 1958	Nov. 1957
Albany	$ 251,900	$ 138,750	$ 61,300
Astoria	12,137	7,017	12,474
Baker	86,250	45,000	78,485
Bend	92,210	74,400	102,750
Coos Bay	102,996	65,095	10,020
Corvallis	231,050	326,040	300,200
Eugene	307,495	419,285	153,699
Grants Pass	88,550	64,150	15,335
Gresham	19,200	19,721	140,029
Hillsboro	38,797	110,906	38,550
Klamath Falls	81,200	268,680	86,900
LaGrande	1,900	81,095	18,746
Lane County	449,657	970,541	277,603
Medford	349,750	1,129,821	257,805
Multnomah County	1,111,826	3,913,915	1,511,725
North Bend	89,905	97,900	51,142
Oregon City	12,770	32,725	22,155
Pendleton	48,980	213,740	89,750
Portland	4,592,745	7,779,130	2,206,010
Roseburg	28,910	196,372	40,329
Salem	250,627	625,003	228,394
Springfield	65,590	147,025	30,115
The Dalles	89,674	84,831	37,750
TOTAL	**$ 8,404,069**	**$ 16,811,142**	**$ 5,771,266**

WASHINGTON	Nov. 1958	Oct. 1958	Nov. 1957
Aberdeen	$ 11,651	$ 73,352	$ 36,034
Anacortes	226,070	102,998	39,275
Auburn	525,618	364,000	86,100
Bellingham	129,929	1,833,058	315,206
Bremerton	102,480	253,635	34,950
Centralia	41,004	60,982	547,216
Chehalis	15,633	21,734	22,217
Clarkston	41,523	33,313	26,935
Ellensburg	6,050	64,417	31,967
Ephrata	23,175	31,665	22,980
Everett	1,443,725	133,998	51,414
Kelso	23,600	97,000	35,100
Kennewick	20,250	53,600	91,200
King County	7,243,205	9,503,615	5,271,030
Kirkland	30,800	47,100	157,620
Longview	156,278	243,018	429,169
Moses Lake	162,703	92,320	63,410
Olympia	119,325	205,598	155,280
Pasco	88,121	132,300	27,900
Pierce County	1,152,624	1,815,830	579,825
Port Angeles	74,450	27,950	15,325
Puyallup	73,070	29,050	83,500
Ritzville	1,400	23,600	1,000
Seattle	3,381,549	13,969,316	5,611,575
Shelton	33,150	46,800	195,825
Spokane	1,373,346	2,009,647	1,884,034
Spokane County	1,231,858	1,651,399	1,123,465
Sumner	12,500	60,100	30,715
Tacoma	807,843	1,424,154	975,568
Vancouver	303,185	764,060	298,188
Walla Walla	657,156	195,510	28,281
Wenatchee	29,190	251,877	712,829
Yakima	211,114	502,030	901,491
TOTAL	**$ 19,753,575**	**$ 36,130,026**	**$ 19,346,624**

MONTANA	Nov. 1958	Oct. 1958	Nov. 1957
Billings	$ 211,400	$ 284,650	$ 368,300
Bozeman	43,600	189,150	61,000
Butte	5,200	75,388	46,627
Glasgow	16,700	68,600	48,800
Glendive	33,300	42,600	39,050
Great Falls	2,563,756	1,005,733	299,373
Helena	306,950	513,810	109,835
Kalispell	31,759	54,385	24,300
Lewistown	90,000	238,825	3,000
Livingston	21,900	16,175	19,600
Miles City	21,332	105,940	20,583
Missoula	26,000	184,550	68,650
TOTAL	**$ 3,371,897**	**$ 2,779,806**	**$ 1,109,118**

IDAHO	Nov. 1958	Oct. 1958	Nov. 1957
Boise	$ 2,403,131	$ 713,308	$ 417,311
Caldwell	35,000	108,166	20,485
Coeur d'Alene	31,775	164,695	51,916
Idaho Falls	647,309	881,356	579,650
Jerome	7,500	29,950	21,350
Lewiston	83,129	146,925	170,135
Nampa	99,050	267,425	52,400
Payette	46,550	12,700	150,000
Pocatello	255,205	191,037	224,681
Sandpoint	25,200	76,000	11,450
St. Maries	Nil	23,000	32,800
Twin Falls	132,800	102,820	215,750
TOTAL	**$ 3,766,599**	**$ 2,717,382**	**$ 1,947,928**
GRAND TOTAL	**$167,903,596**	**$236,655,677**	**$149,194,554**

Southern California buildings win A.I.A. 1958 Awards



Architects Pereira and Luckman received a First Honor Award for the Robinson's Palm Springs Specialty Shop, shown here. Roof Deck is PYROFILL with Insulation Formboard.

PYROFILL* used on three award winners

GYPSUM ROOF DECKS

PYROFILL Gypsum Roof Decks can solve a variety of design problems, as shown by these three A.I.A. award-winning buildings. Requirements for appearance, acoustical treatment, and insulation can be met at minimum expense and with maximum ease of installation. In addition, building fire insurance costs are often reduced as much as 30 per cent.

NEW HIGHER SHEAR VALUES

The Research Committee of the International Conference of Building officials recently recommended allowable shear values as high as 982 pounds per lineal foot for PYROFILL Diaphragms specifically designed for high seismic resistance. These higher shear values are now accepted by the County of Los Angeles and by many of the 1,000 cities using the Uniform Building Code. For more information write to United States Gypsum, 2322 West Third Street, Los Angeles 54. *T. M. Reg. U. S. Pat. Off.

Architects Smith and Williams received an Award of Merit for the Union Service ... Roof Deck is PYROFILL with Acoustical Formboard.

Architects Pereira and Luckman received an Award of Merit for the industrial plant shown below. Roof Deck for the assembly and shop buildings is PYROFILL with Insulation Formboard.

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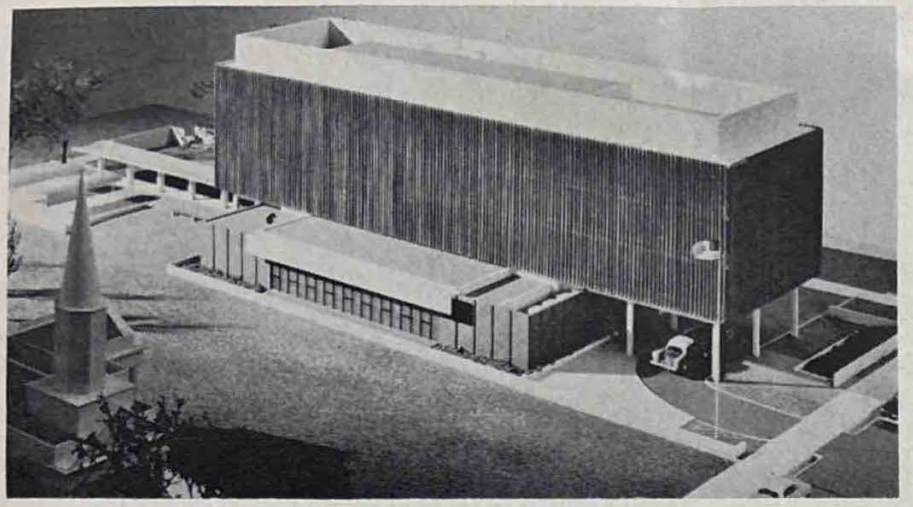


OFFICE BUILDING for U. S. Consulate General in downtown Singapore, designed by Jones & Emmons, will meet street on three sides while fourth will overlook adjoining property of Armenian Church, local landmark built in 1835.

Singapore consulate designed by Los Angeles firm

Plans for the new office building for the U.S. Consulate General in Singapore by Los Angeles architects A. Quincy Jones and Frederick E. Emmons call for a blending of traditional local style with a hint of American. A vertical louver screen of teak, most common lumber in that country, will run through the three upper floors on all sides of the structure to keep glass areas continually in shade. Sheltered arcades will protect all entrances from intermittent heavy rainfall.

Exterior wall surfaces have been designed to resist mildew by the use of unpainted plaster mixed with granite chips to furnish color. All yard areas will be completely air conditioned but not heated. In accordance with local construction practice, it will have a reinforced concrete frame with brick filler walls supported on concrete piles.

Besides normal consular activities, the cultural and educational services of the U. S. Information Service will be housed in this building. A theaterette, film and reference libraries are the facilities which will be open to the public and will be accessible outside of consular office hours.

James W. Ferrie of Singapore is the associate architect on the site; construction, to get underway during the first quarter of 1959, will be done by a local contractor.

CUBAN INSTITUTE OF ARCHITECTS AWARDS LATEST GOLD MEDAL

to residence designed by Los Angeles architect Richard Neutra for Alfred de Schulthess in Havana. Spacious reinforced concrete structure is long stretched, partly on two levels, to take advantage of northeast breeze and view of Caribbean Sea. Raul Alvarez was supervising architect; Roberto Burle Marx, landscape architect.

Landscape architects back highway beautification

The California Council of Landscape Architects took action recently to urge that the state's new 12,500-mile freeway program be so planned as to preserve the natural beauty and provide a scenic showcase for visitors. Meeting in Palm Springs October 16-19, the delegates resolved to support the new California Roadside Council "Beautiful Highways" program which includes the landscaping of freeways, control of billboards on the new interstate highway system and a statewide anti-litter campaign.

In the principal address Dr. Robert Fenton Craig of the University of Southern California warned against a tendency in some public agencies for "empire builders" to bypass the services of landscape architects and contractors and conduct their own landscaping programs on a "green thumb" basis, resulting in poor planning and waste of taxpayers' money.

Raymond E. Page Sr. of Beverly Hills, member of the California State Board of Landscape Architects, cautioned the group that its legal responsibilities required written contracts with clients and close study of local and state building codes.

The landscape architects elected Courtland P. Paul, Pasadena, president; Theodore Osmundson Jr., San Francisco, vice president; and Lynn M. F. Harriss, Oakland, executive secretary.

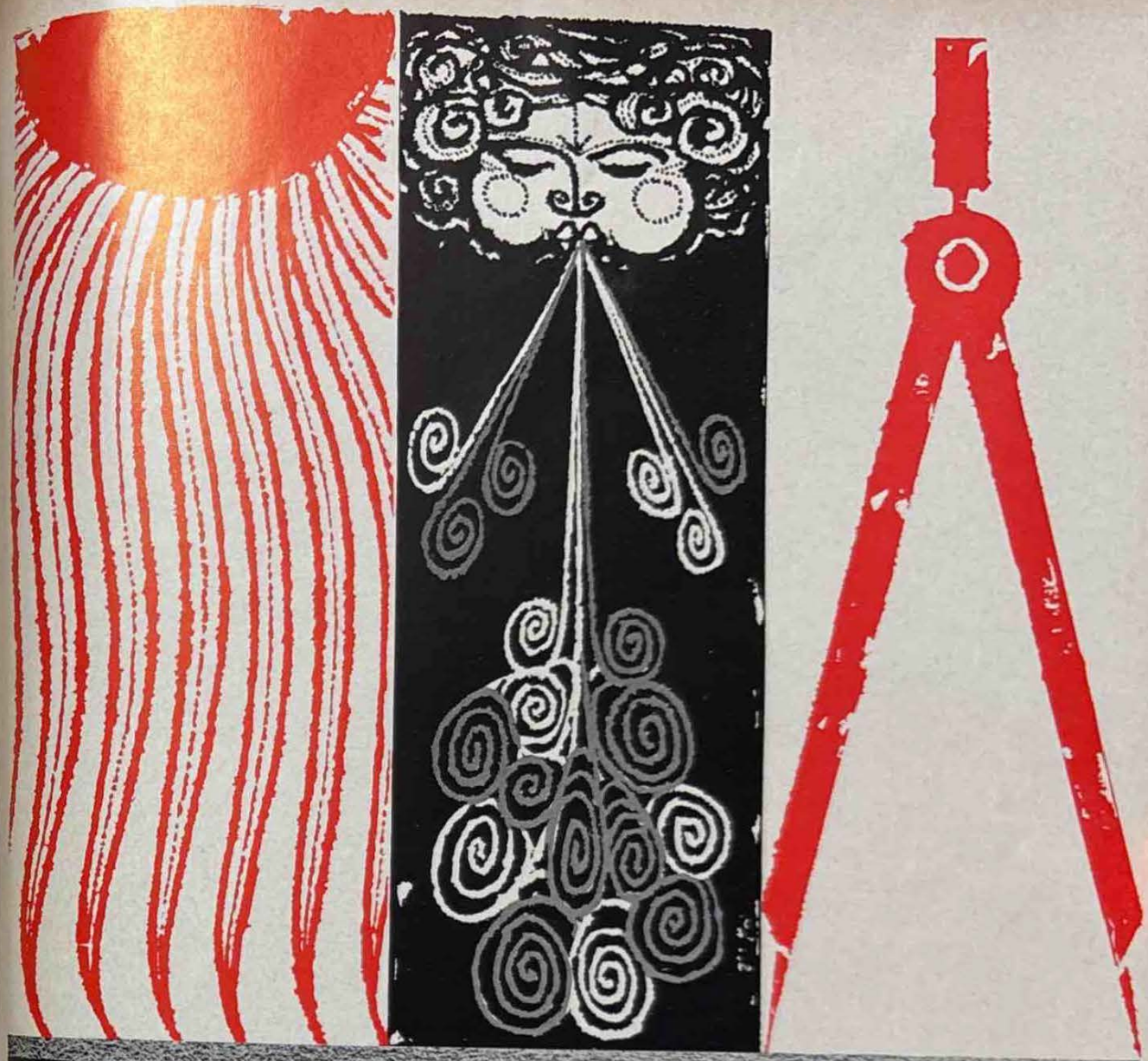
Earthquake behavior is studied by engineers

It does not seem economically justifiable that in a seismically active region all buildings should be designed to survive the strongest possible ground motion without any damage, a California engineering professor told the American Society of Civil Engineers at its New York convention in October.

"It is more reasonable to take the point of view that the design should be such that the structures will survive the more frequent, moderate ground motions with damage," declared G. W. Housner of the California Institute of Technology, "but in the more rare event of very strong ground motion, damage would be tolerated so long as it was not a hazard to life and limb."

Studies during earthquakes by so-called response spectrum curves give the answers to much of the puzzling behavior of structures in earthquake areas, Professor Housner told the engi-

Continued on p. 8



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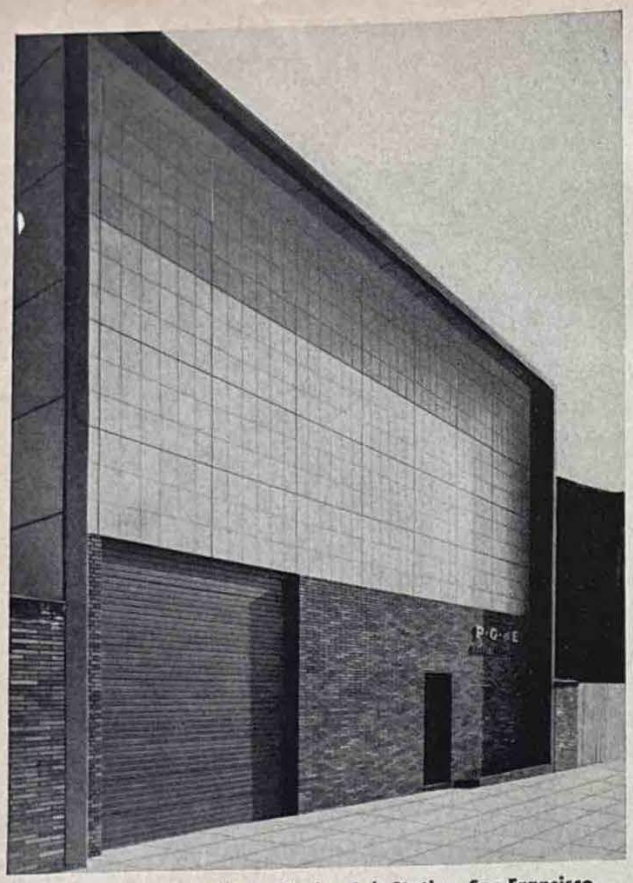
KAISER GYPSUM COMPANY, INC. Kaiser Building—1924 Broadway, Oakland, California



Pacific Gas & Electric Co. Marina Sub-Station, San Francisco
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neers. For example, after almost every [illegible] earthquake it is observed that a few old and apparently weak buildings survived even though their known strength was relatively low.

This, he said, can be explained as the result of two factors. First, the true ultimate strength of the structure is often much larger than the nominal design strength. Second, such old, loose-jointed buildings may absorb large amounts of energy during only moderate vibrations and, as seen from the spectrum curves, such a structure could survive strong motion without actually being subjected to high stresses.

It is also not uncommon to observe that the same ground motion that apparently did no damage to an old, weak building damaged a relatively strong building. This is explained by the fact that in such strong structures the vibrations resulting from strong ground motion becomes worse and then some member of the structure shows distress.

After the Mexico City earthquake in 1957, the epicenter or focus of which was 220 miles away, it was observed that in the same district old masonry buildings came through the earthquake on the whole better than modern steel and concrete buildings that had greater lateral strength.

Professor Housner stated that this can be explained as resulting from the long distance of the epicenter from the city. The old masonry buildings were mostly low structures with short periods of vibration, whereas the modern ones were largely multistoried, long-vibration period buildings, so that in effect the old experienced a much weaker ground motion than did the new.

He also noted that after almost every destructive earthquake, some buildings are observed to be in such a badly damaged condition that, from the design point of view, it seems a miracle that they did not collapse.

If the damage to a structure is looked at as a process for absorbing energy, he said, the survival of these structures is not so mysterious. In these cases it is not so much a matter of strength as it is a question of whether the structure can continue to absorb appreciable energy during its vibrations. In badly damaged buildings which show interior and exterior cracked walls, it is evident that a large amount of energy has been dissipated and that further vibrations will continue to dissipate energy.

Building briefs

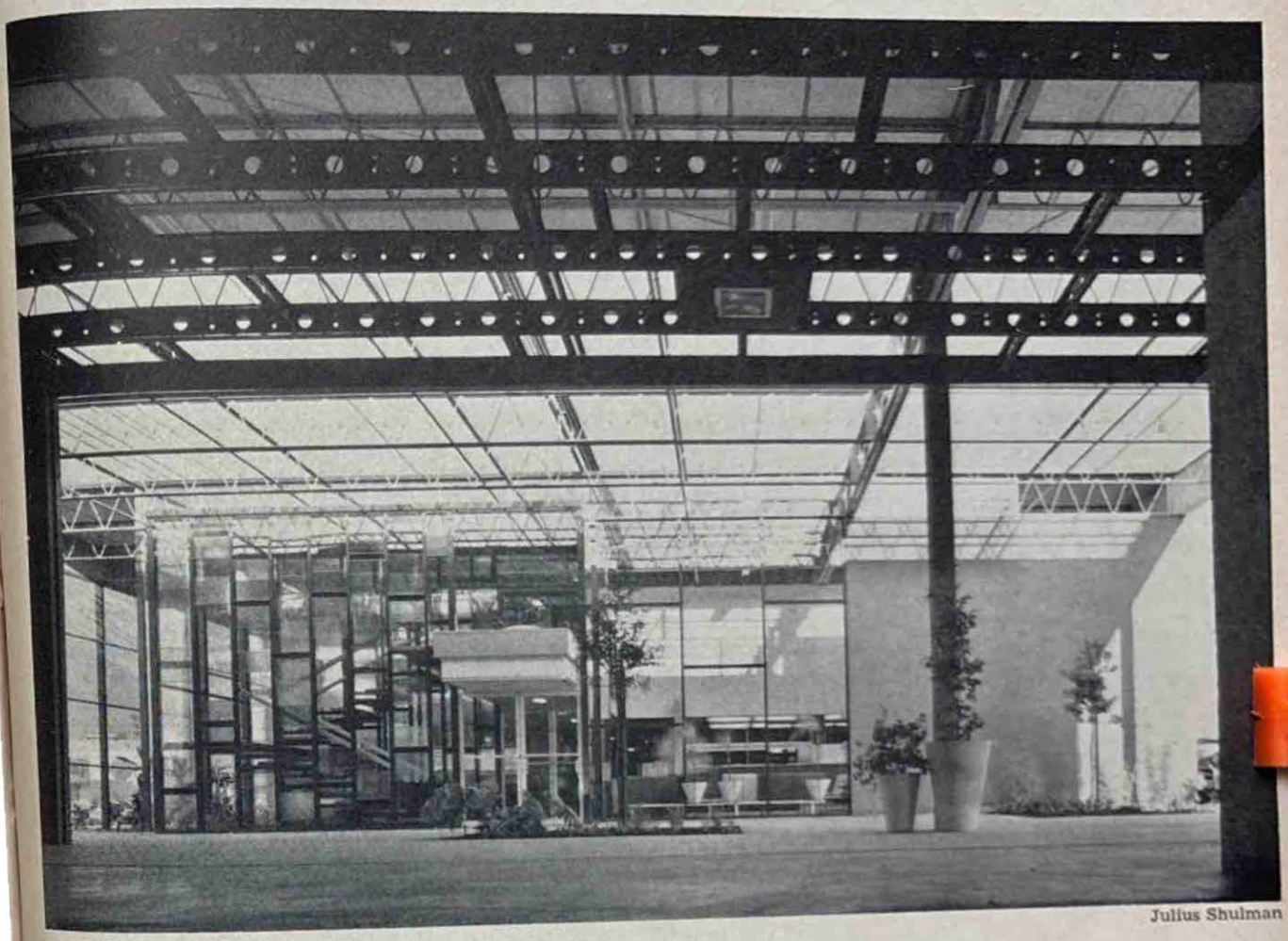
• California Council, AIA, has moved to 916 Kearny St., San Francisco 11. Telephone number (YUkon 6-5347) remains the same.

• Building Research Institute will open a year of expanded technical program activity with a conference on noise control in buildings January 14-15 at the Hotel New Yorker, New York City.

• National Association of Home Builders will hold its annual convention and exposition in Chicago January 18-22, with the Hilton Hotel as headquarters. Among the seminars: new design ideas for better building.

• Building Center in Los Angeles will celebrate its first anniversary December 23 with an open house honoring the architects, decorators, landscape architects and manufacturers who are participants in the exhibit.

• Hillside building development—economics and hazards—will be discussed at a January 30-31 conference in the Chemistry-Geology Building on the UCLA campus.



Julius Shulman

Undisguised steel frame: a definition of space

Union Service Center, Local 887, UAW
Los Angeles, California

•

SMITH & WILLIAMS, Architects-Engineers

KOLESOFF & KARIOTIS, Structural Engineers

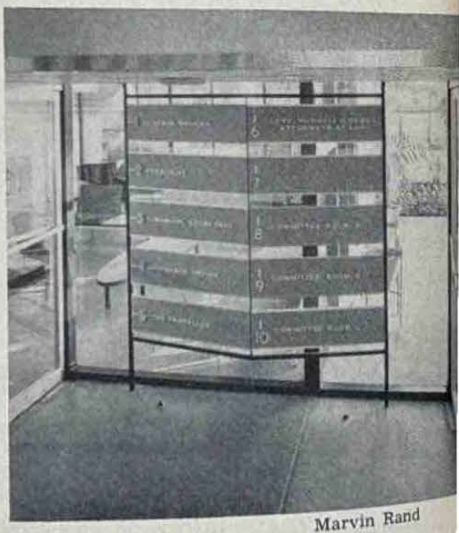
RICHARD SELJE, Interior Finishings

ECKBO, DEAN & WILLIAMS, Landscape Architects

ROULAC CO., General Contractor

Julius Shulman

INSIDE BUFFER ZONE, interior elements extend beyond major plane of glass walls to gain greater sense of total environment unity. Entry directional sign indicates scope of activities housed under one roof. Lobby is at left, stairway to second floor at bottom of photo.



Marvin Rand

GREAT ENCLOSURE of free space to house a long list of union activities was created in a limited area, within a rigid budget, on one of the busiest industrial traffic arteries in Los Angeles. Secret of the low-cost construction—$11.20 per square foot—lies in the utilization of space framing with steel combined with a climatic buffer zone.

The result is a tremendous amount of protected interior area in which inexpensive, easily relocated partitioning and flooring elements can be arranged and rearranged according to necessity — what the building's designers call "a kind of architecture nearly as manipulative as a chest of drawers." Even the wood-framed mezzanine is essentially a separate structure within the larger, its purpose being mainly to support a catwalk and office floors of the second story. All exterior plastered panels are merely enclosures and bear no weights; the same is true of interior partitions. All roof loads are carried by the steel columns.

Design of the 50-ft. open web trusses has a lacy quality of its own, capable of remaining undisguised, which permits the ceiling to read at the top rather than at the bottom of the cross pieces. Since no suspended ceiling was needed to camouflage beams, a saving of about 2 ft. in the height of the building resulted. If code restrictions had been more realistic in regard to structural stress tolerances, the architects point out, further savings would have been possible by using fewer posts and truss elements. (This would have been the case if the project had been constructed in county territory directly across the street.)

The building is opened visually to the outside by large stretches of fixed glass, which in turn introduced a set of problems. A buffer zone running the two lengths of the structure was devised, composed of a planted strip of garden sandwiched between the glass walls and the porcelain-enameled sun screen. Planting acts to precool outside air before it reaches glass surfaces and, along with the screen,

tempers heat and glare reflected from surrounding pavements. The twisted perforation in the expanded metal throws out of focus the gaze of passersby to insure sufficient privacy for the interior without sacrificing light. For good measure, the climatic buffer reduced the air conditioning load by about 10 tons and the sun screen eliminates the need for blinds and drapes.

An entry-concourse bisects the structure (photo on p. 9): business functions housed on two floors in one half of the building, a large auditorium with a recreational lanai along one side in the other. The concourse serves as a pleasant plaza for conversation and holds overflow crowds from the adjoining auditorium. Two folding partitions divide this area into three separate halls and retract into compartments integrated with chair storage cabinets on one wall. A movable stage is on rubber-tired casters. Since union officials stipulated that the building was to be a community facility—a service center—, the lanai provides space in which this program can develop. There is a kitchenette for coffee and snacks; tables and chairs are handy for quiet games; and the area becomes an extension of the auditorium for receptions and the like.

Spanning the lobby, the catwalk leads from the stairwell to the second floor hallway. The stairwell itself is a series of transparent planes enlivened by stained glass insets. Overhead, the zigzag reinforcement pattern continues uninterrupted throughout the building as a strong element of continuity.

Marvin Rand

Julius Shulman

Marvin Rand

BUILDING'S QUALITIES are appropriate for union membership, mainly aircraft metal workers concerned with lightness and air, fabrication of metal for flight and end products of beauty. Combination of openness and privacy is achieved principally through interpenetration of special areas, such as in president's office (above) where buffer zone planting becomes intimate garden. Dues payment counter divides lobby (top) from business office. Lounge (left) with trophy display is opposite lobby.

Marvin Rand

METAL SCREEN beyond glass walls helps to filter out objectionable aspects of site, leaves interior quiet and cool.

UNION SERVICE CENTER

OUTLINE SPECIFICATIONS

Structure: foundation: concrete caissons; frame: steel columns and trusses—(V-Lok) Macomber, Inc.; roof: gypsum acoustical formboard—(Pyrofill) United States Gypsum Co.; floors: concrete slab on first and wood on second.

Exterior Finish: glass curtain walls—Republic Glass Co.; stucco integrally colored coat blown on gunited plaster.

Roof Surfacing: built-up composition and coal tar pitch finished with light gravel.

Doors: exterior: sliding glass—Panaview Co.; swinging glass in vestibule—Rebco, Inc.; interior: sliding steel-clad to close off auditorium from concourse—Richard Wilcox.

Floor Surfacing: asphalt tile—(Matico) Mastic Tile Corporation of America; lithochrome concrete in lobby; plain concrete with asphaltic concrete insets in concourse and lanai.

Partitions: drywall on wood studs; modular brick at mechanical room—Davidson Brick Co.

Interior Finish: stucco integrally colored coat blown on gunited plaster; dust-pressed tile in toilets—Mosaic Tile Co.

Ceilings: gypsum slotted acoustical formboard (undersurface of roof).

Lighting Fixtures: incandescent—Prescolite Manufacturing Corp.; fluorescent—Ruby Lighting Corp.; lamp in stairwell—Howard Miller.

Heating and Air Conditioning: 40-hp. central compressor—Chrysler Corp., Airtemp Division; evaporative condensor—Recold Corp.; distributing fans—Bush Manufacturing Co.: furnaces—Reznor Manufacturing Co.; registers and grills—Titus Manufacturing Corp., Inc.; exhaust fans—Pryne & Co., Inc.

Plumbing and Sanitary: water closets and lavatories—American-Standard; drinking fountains—Larco, Inc.

Special Equipment: sun screens: expanded metal—(Armorweave) United States Gypsum Co.; porcelain enamel finish—California Metal Enameling Co.; stairway: milled oak handrails and floating steps; stained glass—Judson Studios; sign: bronze letters and enamel filling—A. J. Bayer Co.

Total Area: 18,300 sq. ft.

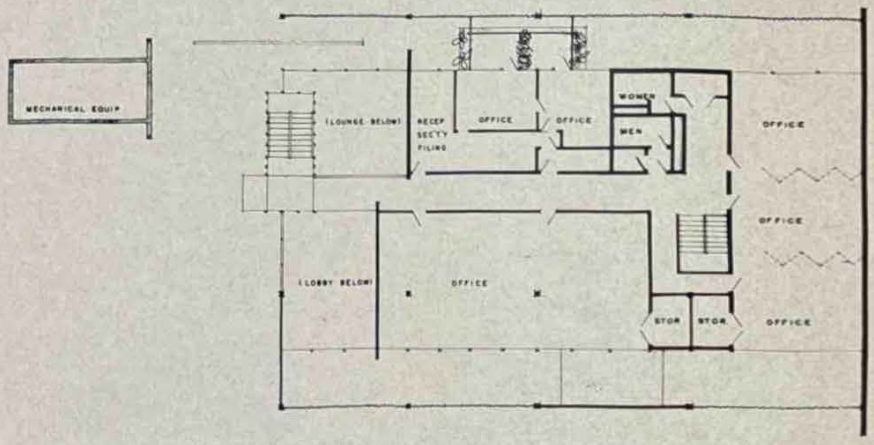
Total Cost: $204,900.

Cost per Square Foot: $11.20.

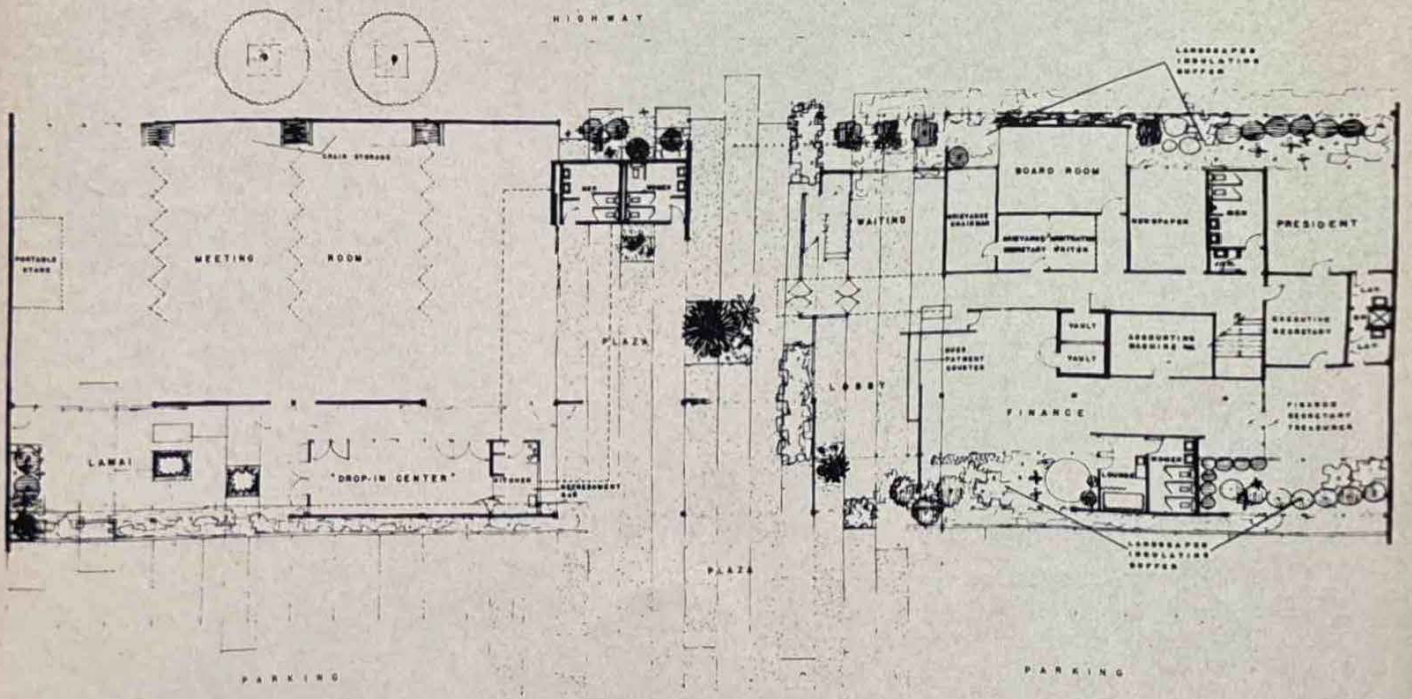
Date of Completion: November 1957.

1958 AIA Award of Merit

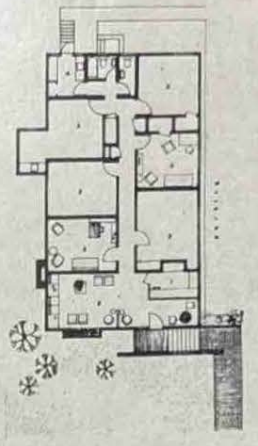
SECOND FLOOR



FIRST FLOOR



Stone & Steccati photos



FLOOR PLAN showing (1) reception, (2) waiting, (3) offices, (4) pantry.

1114 Irwin Street
San Raphael, California

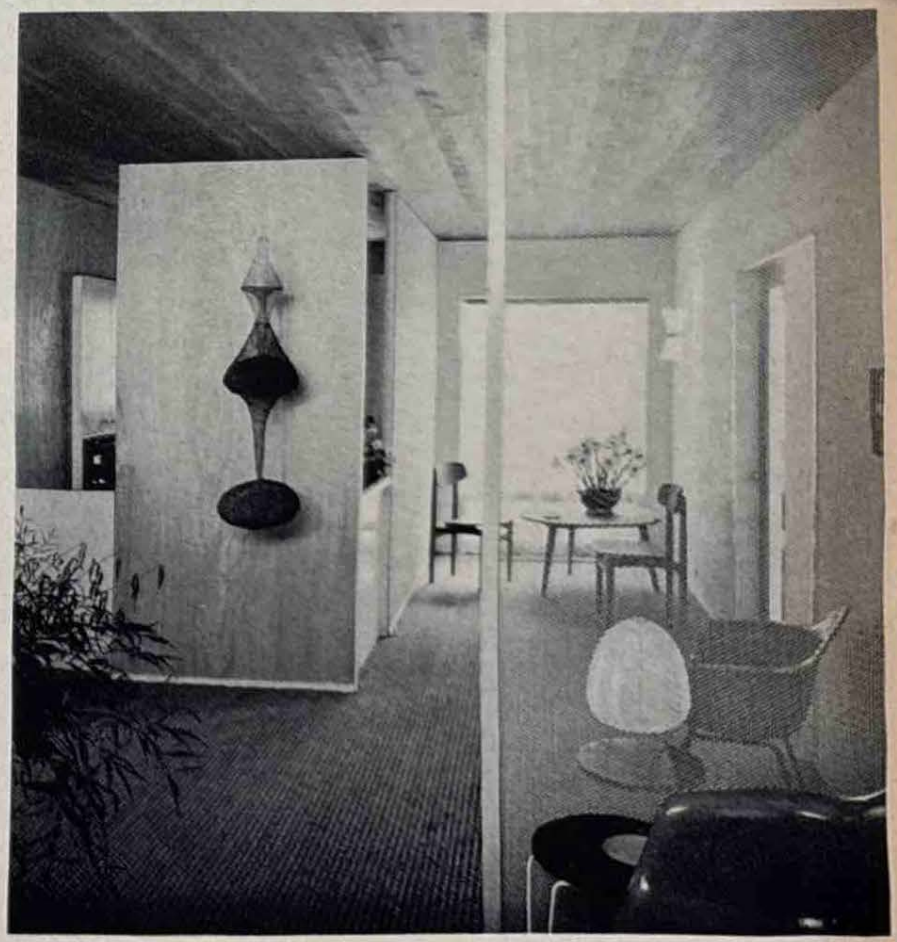
•

JAMES MORRISON LEEFE
Architect

Integrated design serves six psychiatrists

INTEGRATION of spaces with materials, finishes, colors, lighting and furniture, all selected by the architect down to the last detail, has converted a small residence into a very satisfactory office building for six psychiatrists engaged in individual practices. Although the interiors were done on a limited budget, each item was chosen for its fine design and workmanship. Remodeling was accomplished with a minimum of structural changes; soundproofing by doubling the partitions between rooms with an insulating blanket core.

Waiting room seats 12 persons and serves as a monthly meeting room for the doctor-owners. Lowered ceiling in the reception area is finished with fir boarding, continuing the plane of the exterior roof over the entrance steps. Remainder of the ceilings and walls are an off-white plaster, which exploit the ash-paneled partitions, teak woods, woven matting patterns and black pottery. Thus the rooms appear more spacious than they are and convey a feeling of repose so necessary to a practice of this nature.



SCREEN separating entrance door from waiting room is aluminum honeycomb ceullular construction, 4x8 ft., held in wood frame. Hanging wire sculpture is by Ruth Asawa.

Carsten Lien Residence
Seattle, Washington

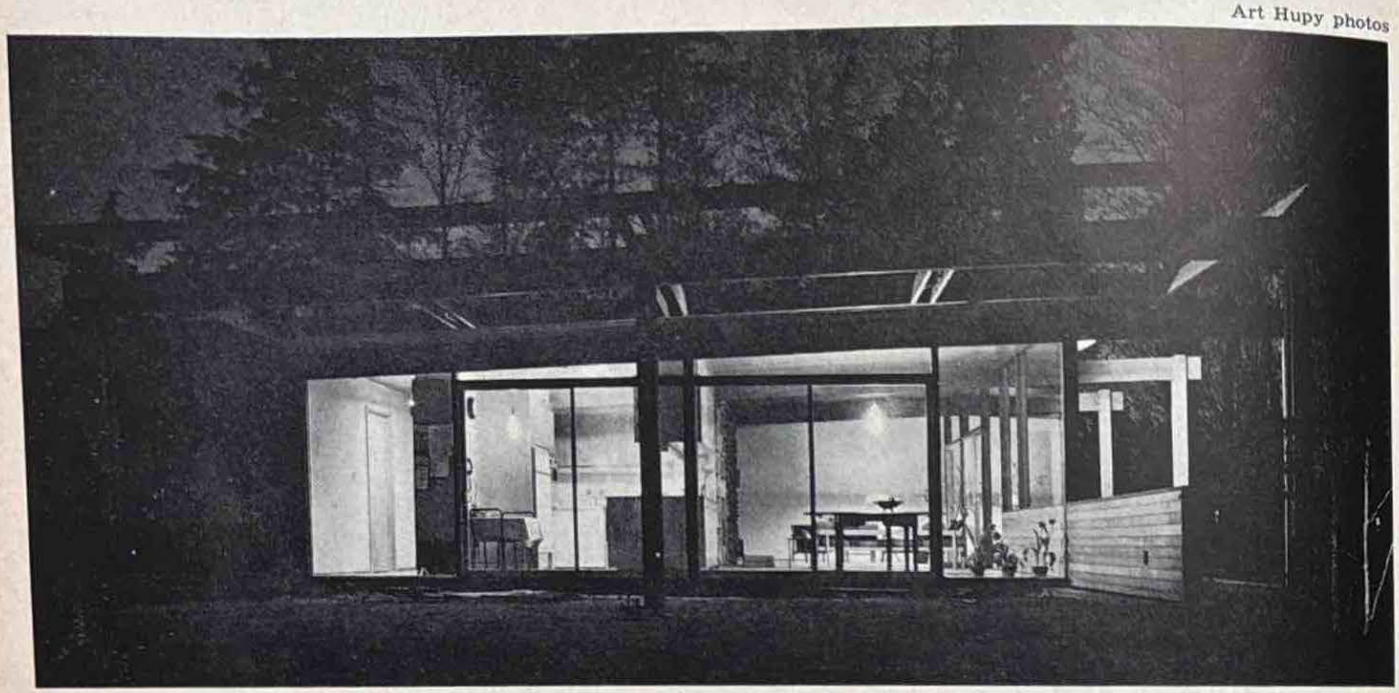
•

BYSTROM & GRECO
Architects

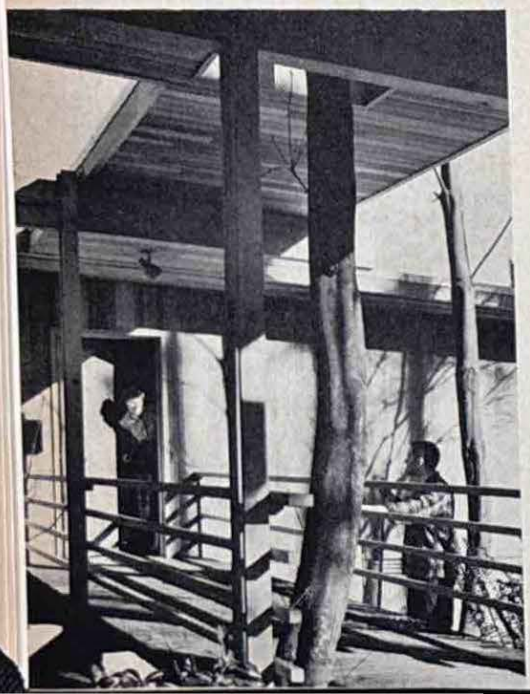
WILLIAM TEUFEL
Landscape Architect

TOM PAULSEN
Contractor

Art Hupy photos



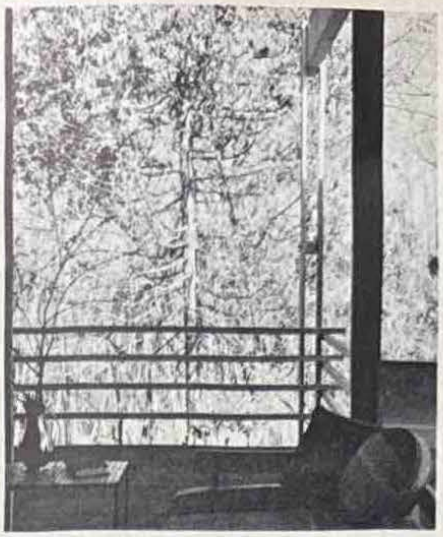
Cedar house is at home in wooded ravine

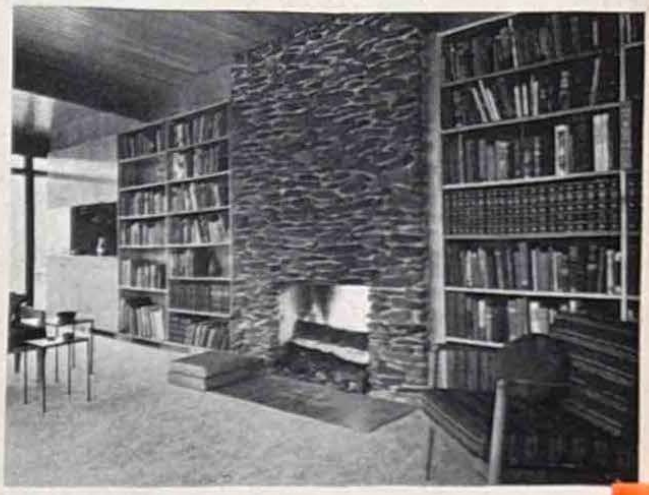


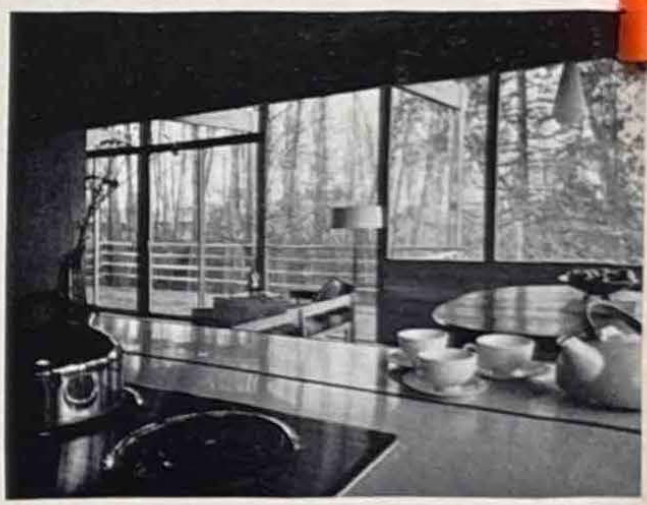
IN DESIGNING this house for a young couple of moderate means who are sympathetic to natural native surroundings, the architects developed a studio-like compactness in plan which was necessitated by budget limitations. The owners, both former school teachers, specifically requested three bedrooms, with maximum free living space. Although the completed portion of the house is basically small—1,310 sq. ft.—, carport, entry bridge, decks and trellis have been employed as continuations of the house, making it appear much larger inside and out. It is sited at the terminus of a ravine, which permitted a minimum of excavation and grading for the unfinished lower level, whose areas are roughed in only (see floor plan).

Birch cabinetwork is used extensively as partitions and the entire core of the house has the quality of one continuous unit, forming an island which contains bathroom, kitchen and stairway. Ceilings repeat the cedar of the exterior siding and soffits. Living and dining areas on the north look out on the wooded ravine; bedrooms on the south are screened by latticework and a hemlock tree hedge.

ENTRY BRIDGE leads to carport. Structural framing members are stained medium dark brown; exterior cedar siding has clear stain finish to retain natural value of wood.







LIVING ROOM opens through sliding doors to balcony deck; continuous wall of bookshelves and storage cabinets flanks fireplace of mountain native stone, hand picked by owners; dining room and kitchen also open through sliding doors to terrace and level portion of property containing garden, fruit trees and tennis court (part of former estate).

OUTLINE SPECIFICATIONS

Structure: foundation: continuous concrete; frame: post and beam; roof and floors: wood.

Exterior Finish: 1x4 western red cedar; stain—(Benite) Daly's, Inc.

Roof Surfacing: smooth surface asphalt—Johns-Manville Corp.

Doors: natural finish birch; sliding aluminum—Arcadia Metal Products.

Floor Surfacing: asphalt tile (Corktone) Kentile, Inc.; subflooring—United States Plywood Corp.

Insulation: fiberglass batts and aluminum jacket.

Partitions: birch cabinetwork.

Interior Finish: ½-in. gypsum board—United States Gypsum Co.

Ceilings: 1x4 t&g cedar; stain (Benite)—Daly's, Inc.

Heating: forced warm air—Rossoe Manufacturing Co.; controls—Minneapolis-Honeywell Regulator Co.

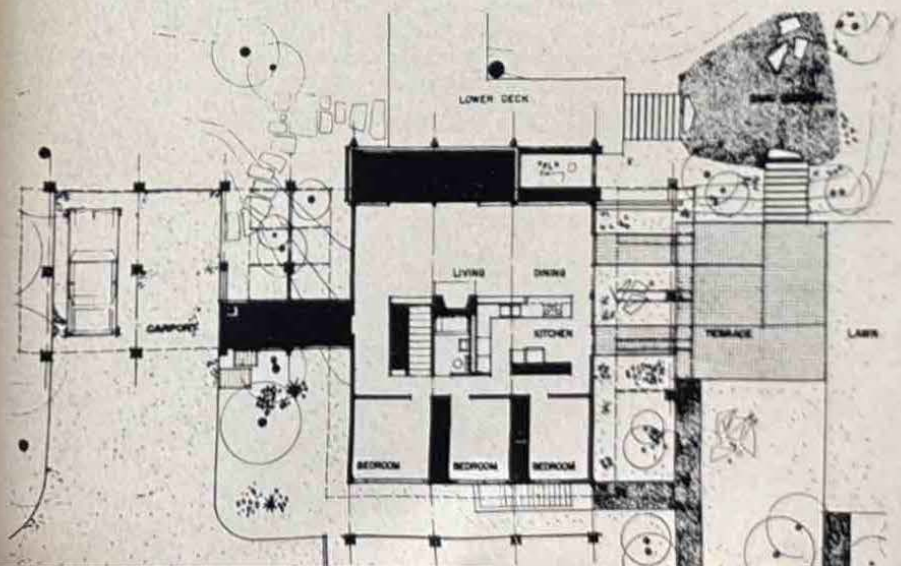
Ventilation: exhaust fans in kitchen and bathrooms—NuTone, Inc.

Plumbing Fixtures: lavatory, water closet and bathtub—Crane Co.

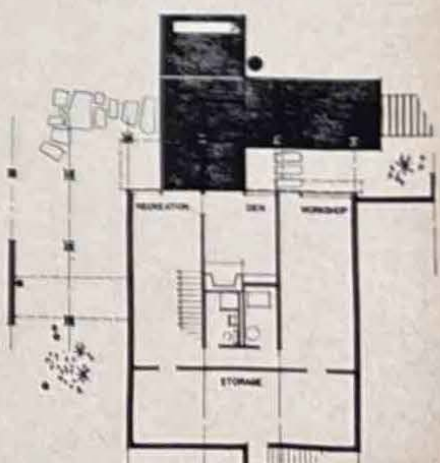
Total Area: 1,310 sq. ft., each floor (basic house).

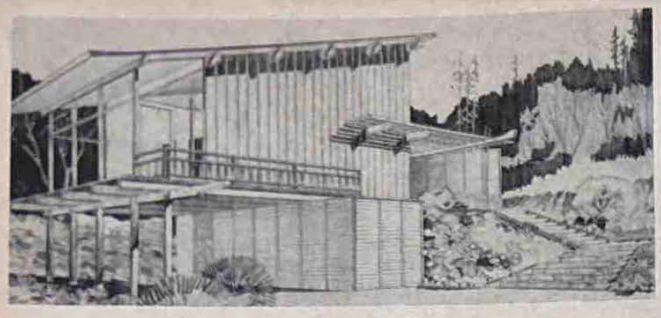
Cost per square Foot: $13.40 (basic construction only).

Date of Completion: December 1957.



LOWER LEVEL (roughed in only)





ARCHITECT: Hawley A. Dudley

ARCHITECT: Robert E. Hugus

ARCHITECT: Kenneth Koehler

ARCHITECT: Robert E. Hugus

'Home of the Month' spells

Winning project in the 1957 "Home of the Month" competition—the Carsten Lien residence designed by Bystrom & Greco—is featured on the two preceding pages. Shown here, without comment, are sketches of last year's 11 other entries as they appeared in the Sunday Seattle Times.

ARCHITECTS frequently are asked to give professional advice without payment, a condition which subconsciously may lead to insecurity and frustrations, a Northwest group of practitioners were told by a psychiatrist just the other day.

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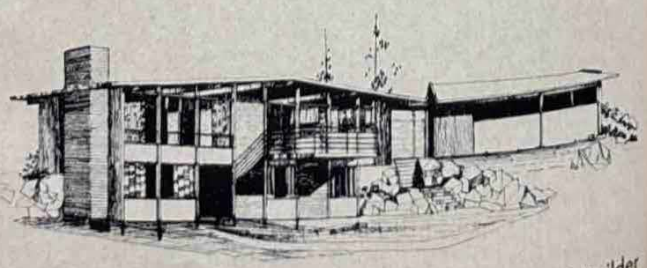

public relations in Seattle

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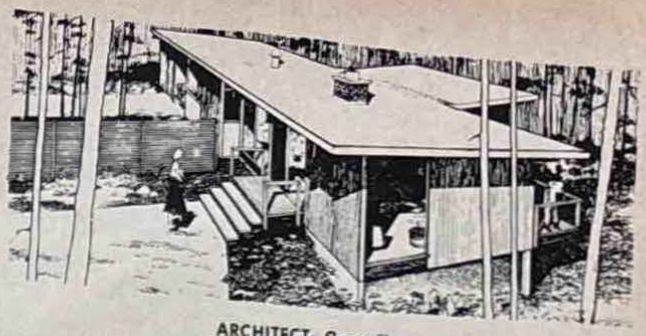
ARCHITECTS: Lawrence & Hazen



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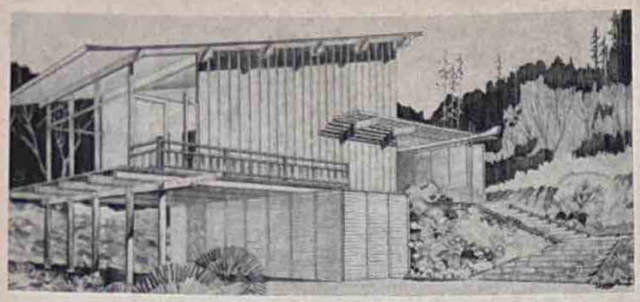
ARCHITECT: A. O. Bumgardner

ARCHITECT: Ted LaCourse

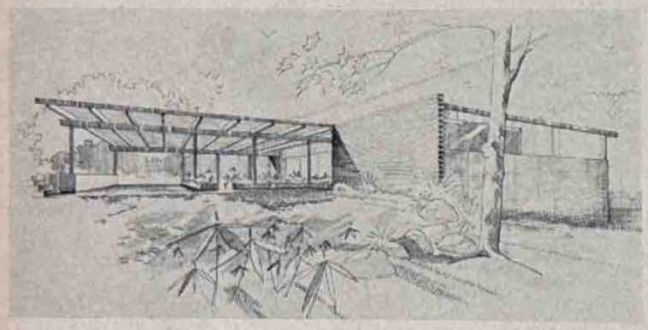
ARCHITECTS: Wortman & Wilkins

ARCHITECT: Arnold G. Gangnes



ARCHITECT: Hawley A. Dudley

ARCHITECT: Robert E. Hugus



ARCHITECT: Kenneth Koehler

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'Home of the Month' spells

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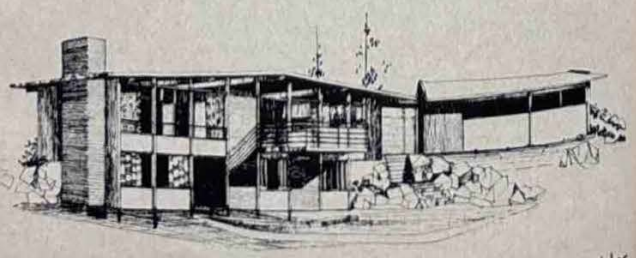

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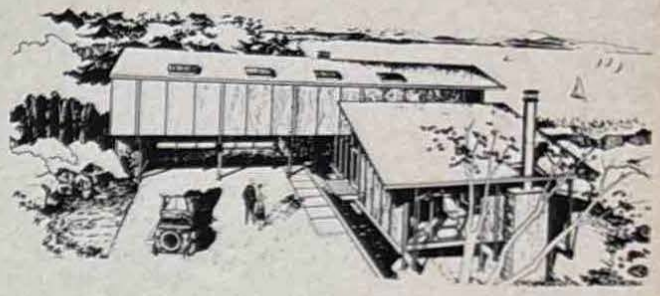

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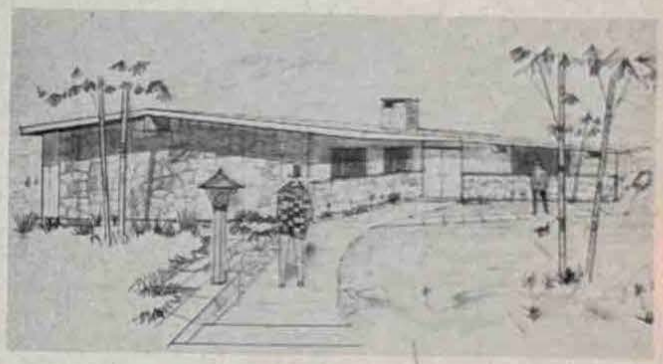

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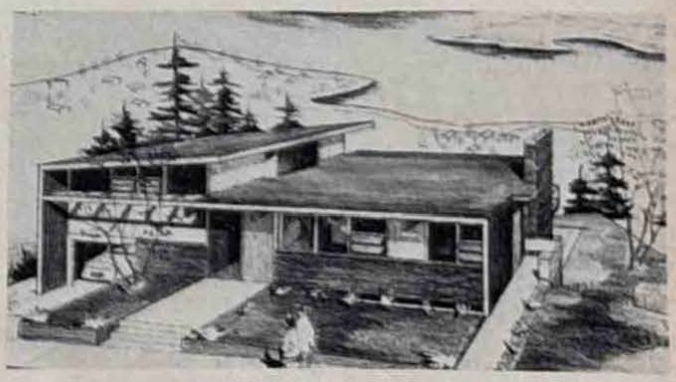

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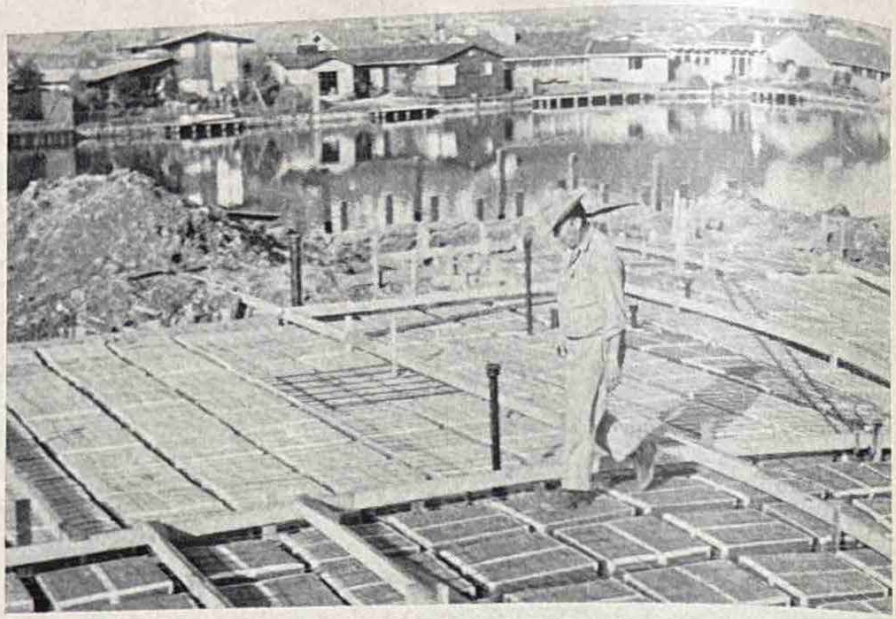


RECENT ENTRANT in residential field are corrugated void boxes shown in place to provide lightweight, sturdy concrete foundation on swampy land.

Unique application for void boxes

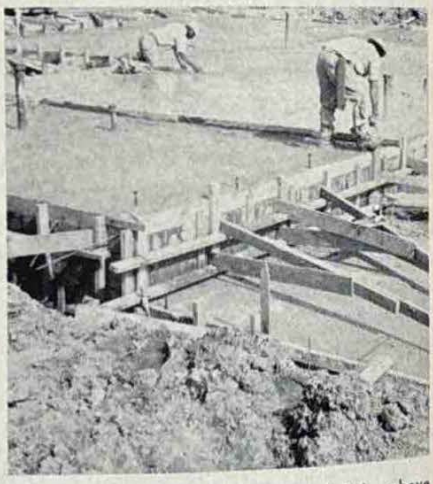
CORRUGATED void boxes designed for poured concrete foundations and flooring entered the field of residential construction recently when they were used in the "floating" foundation of a house built on fill land adjacent to the Belvedere Lagoon on San Francisco Bay.

Employed on this job were Fibrforms, made at the Antioch, Calif., plant of Fibreboard Paper Products Corp., with the interior reinforced with an egg crate of crossed, interlocked sections of paperboard. A water-resistant adhesive was used in the forming of the void boxes, providing further protection against distortion from moisture. They withstood more than 10 in. of rainfall without damage between their initial placement at the building site and the pouring of the concrete foundation.

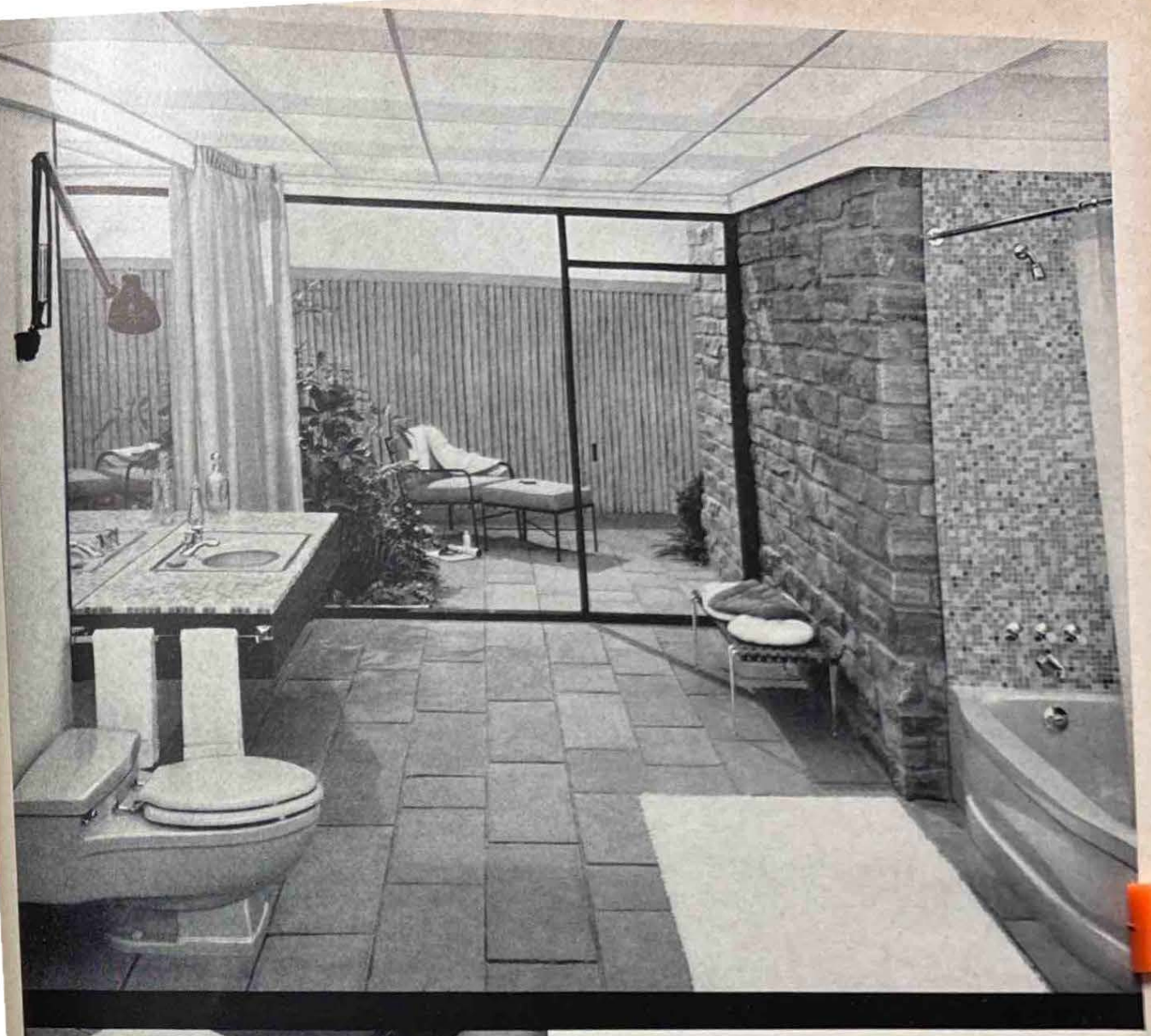
Void boxes were spaced 3 in. apart on a thin graded bed of sand; ½-in. reinforcement steel was placed between the boxes and slightly above the level of the sand. Additional slab reinforcement consisting of 6-in. wire mesh was placed over the boxes before the concrete was poured, to a depth of 3 in. above the Fibrform tops.

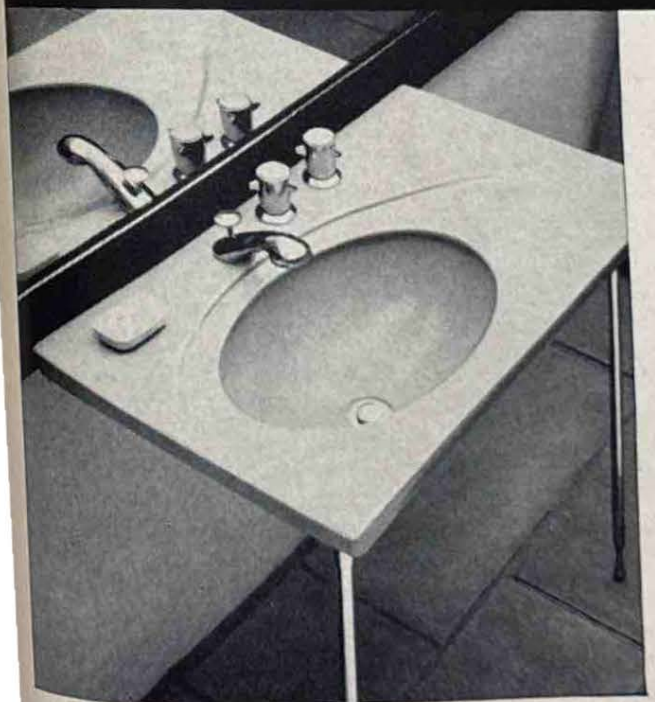
In the design of this foundation, architect Joseph Esherick minimized future settling by removing an amount of earth under the house equal in weight to that of the structure itself. The air-filled voids, created in the slab by the paperboard boxes, produced a foundation of more than 18 in. in depth but of minimum weight. Depth of the slab combined with the reinforcement grid within it produced a foundation of strength; the voids assured its proper functioning as a floating foundation.

August E. Waegemann was the engineer; Brown & Elkin Construction & Engineering Co., contractor.



CONCRETE is poured to depth of 3 in. above tops of boxes.





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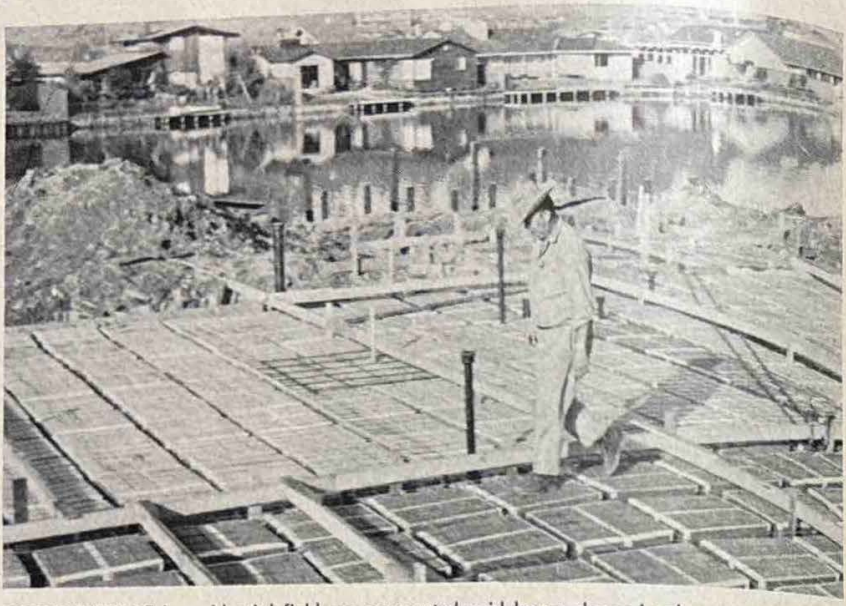

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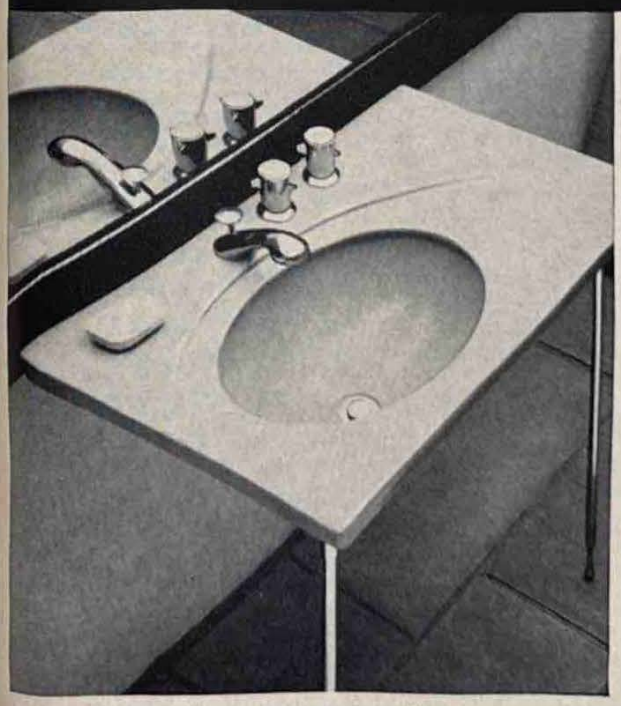

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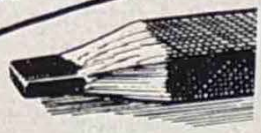
Memo to Architects



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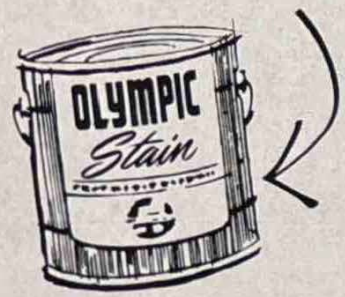

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Architect reviews masonry schools

A combination of precast reinforced concrete structural elements and the use of grout filled masonry unit walls offer great possibilities for economy in the design and construction of quality schools. San Francisco architect Donald Powers Smith gave this view at a dinner meeting of the Masonry Joint Industry Board of the Northern California Coast Counties earlier this year.

In his review of block masonry construction in school building, Smith pointed out that "it is significant that many important masonry structures located in the heart of the 1906 San Francisco earthquake zone remained undamaged from the quake.

"The result of California's experience with earthquakes," he said, describing the evolution of the state's Uniform Building Code, "seemed to be a quick substitution of light wooden frame structures for the more imposing masonry buildings. The stimulus to the building industry from the emergency of frame construction was healthy in that it did open up a flexibility of planning that had not been inherent in the usual school building prior to the Santa Barbara-Long Beach earthquakes.

"This stimulus also sent the clay building products industry scurrying to researchers to develop new and practical ways and means of constructing economical and functional masonry buildings which could meet the demand for earthquake resistance."

Opinions expressed by officials administering California's state aid program relating to new construction "seemed to indicate a belief that masonry buildings" could not come within cost allowances. "My office," Smith declared, "has been committed to a policy of providing masonry school buildings and I can produce documented records showing that our reinforced concrete and masonry buildings cost no more than our similarly planned and equipped wood frame buildings.

"Department of Finance authorization to go to bids on one project contained the statement that the reinforced concrete construction involved 'may' cause the construction costs to exceed the approved estimates."

On this particular project, the architect pointed out, the reverse actually happened and the actual bids permitted the state allocations to be reduced by 13% and subsequent projects produced savings under the state aid allowance of 13.7%, 15%, 1.1% on a small project and similar under-cost figures.

"These projects are not austerity type schools by any means. They incorporate panel or central space heating, tri-lateral natural lighting and fluorescent luminous ceilings in at least two of the projects, aluminum sash with glare-eliminating glass, etc.

"The essential virtue of reinforced concrete precast is that it permits great flexibility and permeability of the exterior walls which may be entirely of glass or masonry panels. Interior bearing partitions are completely eliminated.

"These precast frames are generally made flat on the ground on a cheap throw-away concrete slab setting bed and the frames cast using the same plywood forms, one upon the other, then lifted by mobile cranes into their final position.

"This method of casting flat on the ground reduces concrete pouring costs and formwork costs and produces a better concrete in the structure."

Although Smith has used this type of construction widely in his school design, his office has also "made extensive use of it in somewhat more imaginative ways in building churches."

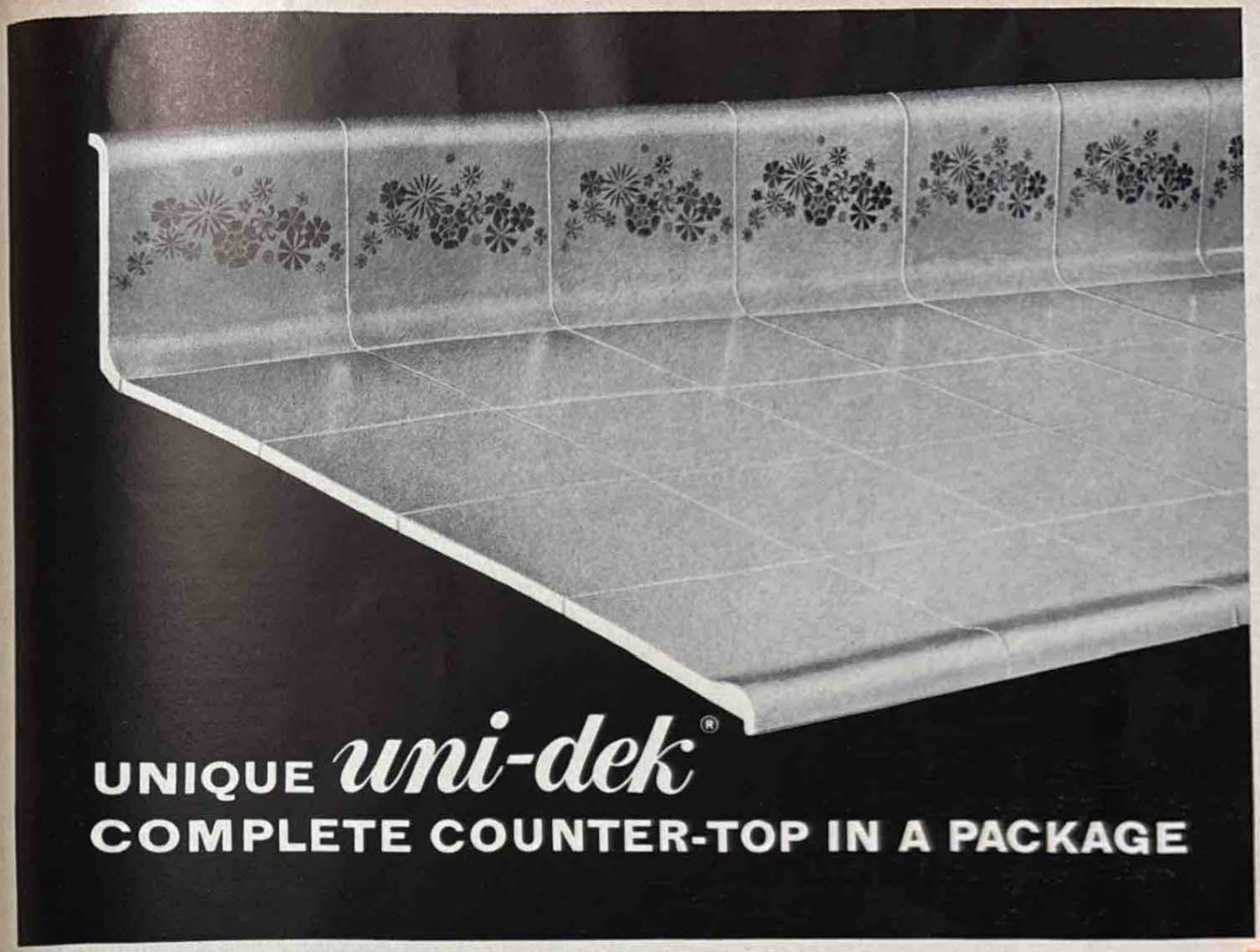
He declared that the masonry industry "in order to regain its position of eminence in the building industry" must face head-on several major problems which include the waterproofing of masonry walls and the failure to eliminate efflorescence "both of which have lost to the industry many, many projects."

One of the developments in masonry construction to which Smith, as an architect, has made a considerable contribution is the use of "high-lift" masonry grouting as contrasted to the so-called "low-lift" masonry grouting which is much preferred by many masonry contractors.

"In low-lift construction," he said, "we have had cores cut from the bottom of the walls with the masonry face falling away from the grout even before the core could be cut out. On our high-lift construction I defy anyone to detach the masonry face from the grout.

"We have had walls poured in this manner which actually exuded the concrete through the face of the lower block; and the resultant structure was infinitely better."

Smith said his office specifies high-lift grouting with the use of vibrators on the last 3 ft. of the lift in the cells in which the steel does not occur. Not only does the use of vibrating equipment virtually eliminate the need for rodding, he asserted, "but it also gives the contractor a better job and saves on all-around labor costs."



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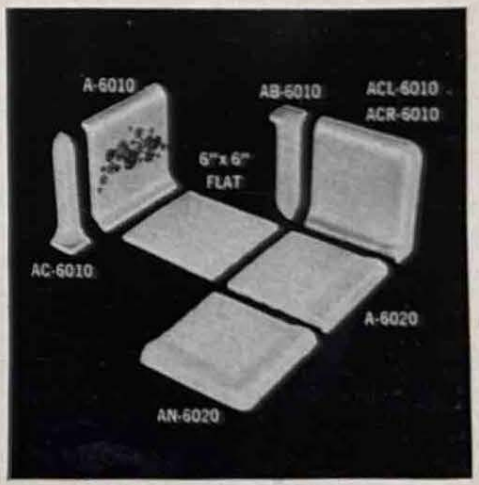

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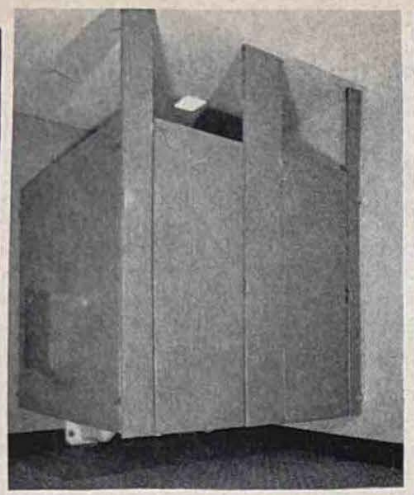

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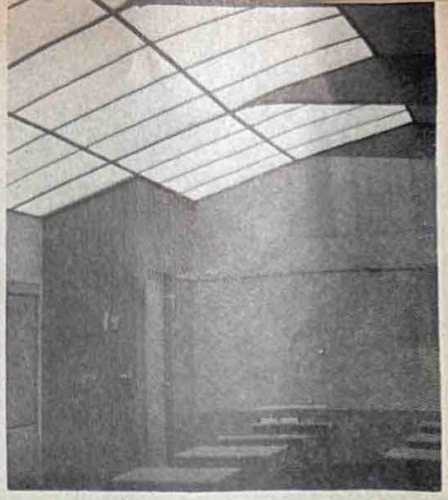
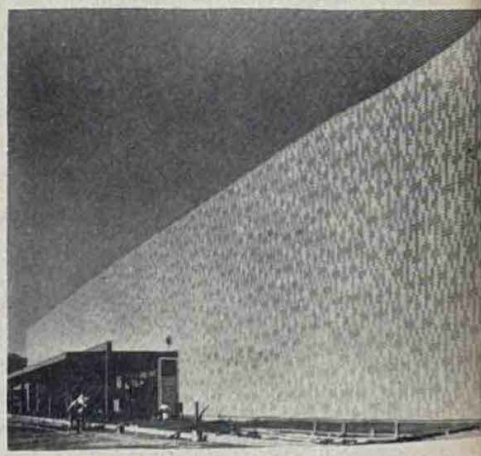


TOPLIGHTING SYSTEM

is specifically designed by Architectural Plastics Corp. as basic part of roof structure of Nyssa Primary School in Nyssa, Ore. Integral flat sheet tension skylight, 40x180 ft., is constructed of 49x120x⅛-in. reinforced plastic sheets. Skylight comprises over 50% of classroom roof area. Secondary relights of 4 ft. by 8 ft. by 1/16th in. are used in rooms, corridors.

CIRCULAR PHONE BOOTHS

in which sound is trapped by perforated hardboard panels backed with Fiberglas so no doors are needed are found in lobby of new Ford Motor Co. central office building in Dearborn, Mich. When four booths were erected, Masonite ⅛-in. Peg-Board panels were secured to framework, Fiberglas was applied on outside and light coat of enamel sprayed into holes in perforated hardboard to "set" insulating material. Formica then was applied to outside of framework. Three pole legs hold booths 2 ft. off floor; height of each is 7 ft. Booth designer: Skidmore, Owings & Merrill.

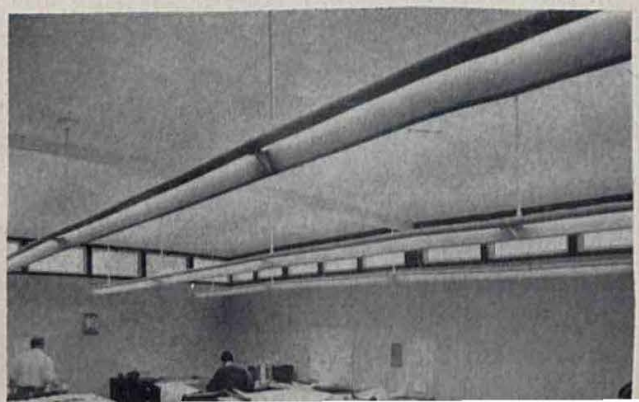


LARGEST TILE SURFACE

in Hawaii features 30,000 sq. ft. of Hermosa tile on exterior of 300-ft. long Liberty House department store in Honolulu. Tiles are 3x6 in. and 6x6 in. in special colors of blue and green. Architects: Victor Gruen Associates.

EFFECTIVE LIGHTING INSTALLATION

is achieved with Peerless Phi/Bete fixtures joined in rows in drafting room of Herrick Iron Works in Hayward, Calif. Reflector coated fluorescent lamps direct 75% of light upward, 25% downward. Upper portion of light is completely shielded, downward portion is softly diffused through lamp coating. Average of 100 footcandles is maintained. Architect: John C. Warnecke; engineers: Wayha, Weir & Finato.



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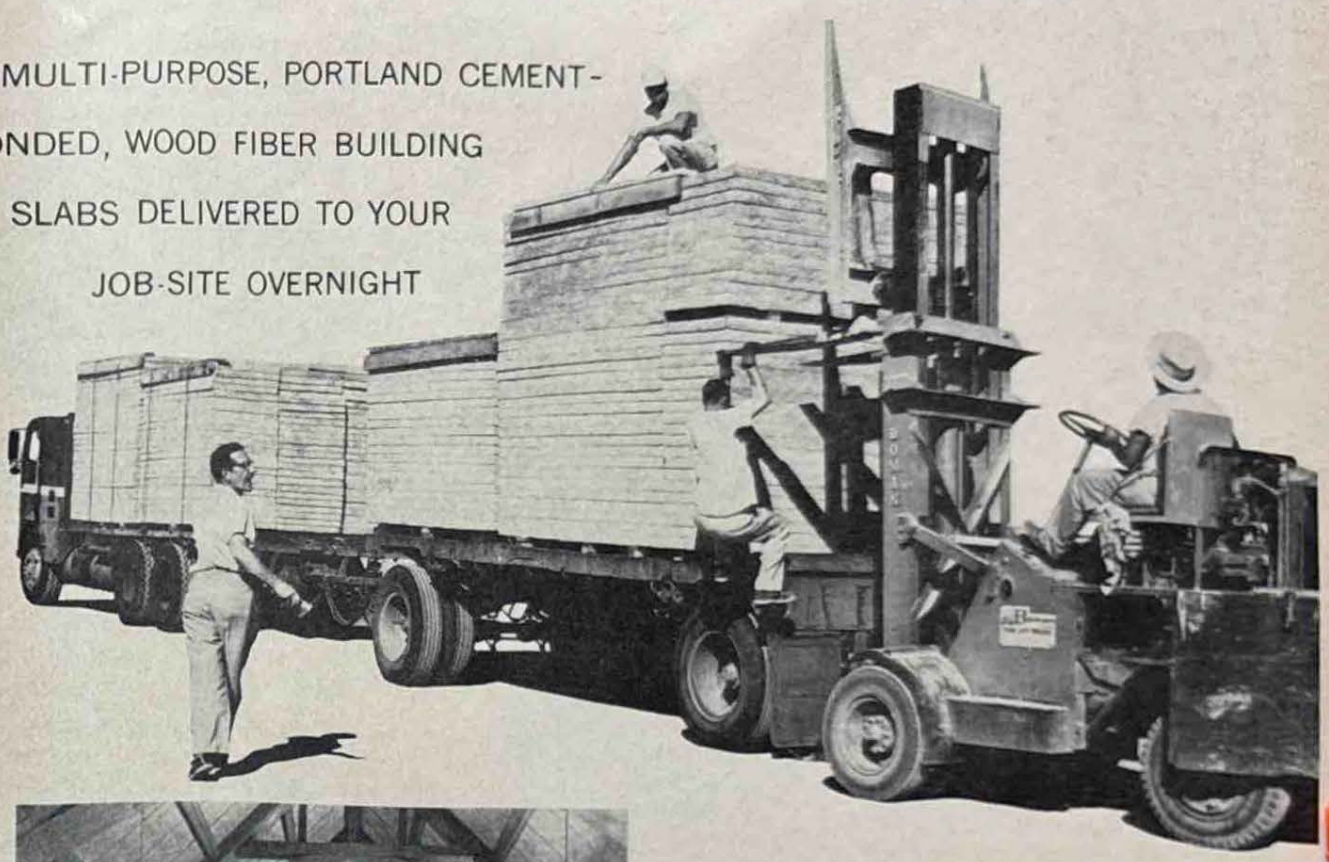

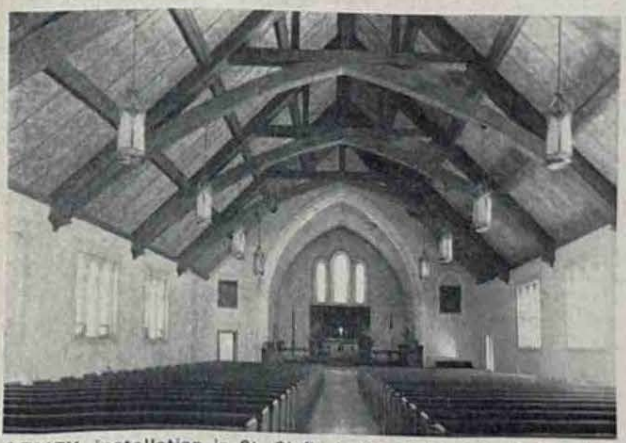

CEMEX installation in St. Olaf's Lutheran Church, Fort Dodge, Iowa. Architect, Frank W. Griffith; contractor, Glenn Walker & Co. Slabs were left exposed to take advantage of their decorative and acoustical qualities.

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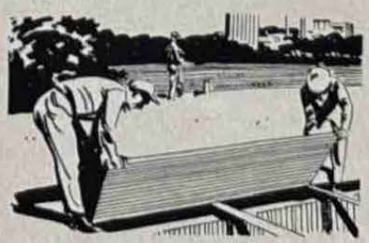

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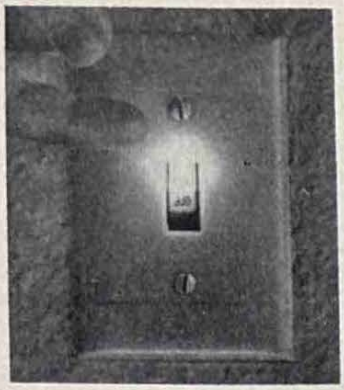
PRODUCTS

glow-in-dark toggle

To end fumbling for a light switch in dark or dimly lit areas, the Sierralite has a toggle which emits a soft



glow whenever it is in the off position. Operating indefinitely at a cost of less than one cent annually, the mercury switch may be wired either from the top or back for ease of installation and comes in both single-pole and three-way models.—Sierra Electric Corp.

(Item No. 1)

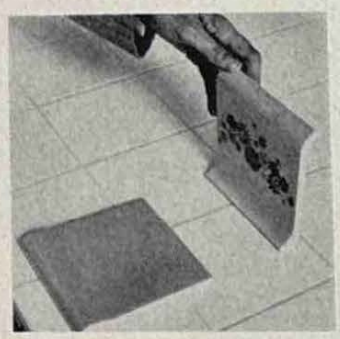
floor-ceiling system

Revolving about Mahon's Cel-beam decking, a combination floor-ceiling system can be employed simultaneously to distribute air, contain recessed light fixtures, house a sprinkler system, provide electrical and telephone raceways in the structural subfloor,

furnish acoustical control and maintain ceiling height by eliminating extra space for conventional air conditioning ducts. System not only offers a neat looking installation but has sound-absorbing properties. Decking also can be used in remodeling where use of bar joists and conventional ductwork for aid conditioning would cause a loss of head room or in lining up floor levels of a new multistory addition with those of an existing structure.—R. C. Mahon Co. (Item No. 2)

ceramic tile package

One-piece stretchers and angles in standard 6x6-in. size are the key features in Pacific Tile's complete cer-

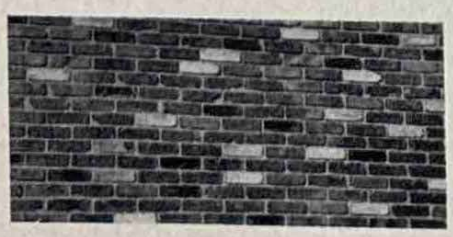


amic tile countertop in a package. Called Uni-Dek, the installation permits the setting of greater areas with less materials and time and is easier to clean because of fewer grout joints. The package is offered in all Ramona colors to harmonize with fixtures and appliances; back splash comes in plain colors or in the Ceratile patterns.—Pacific Tile and Porcelain Co.

(Item No. 3)

decorative masonry

PanelStone, a decorative masonry produced from inorganic materials and glass fibers permanently bonded with vibrin polyester resins, can be applied both inside and out for use in residential and commercial construction. Its absorption rate is about 1/100 of

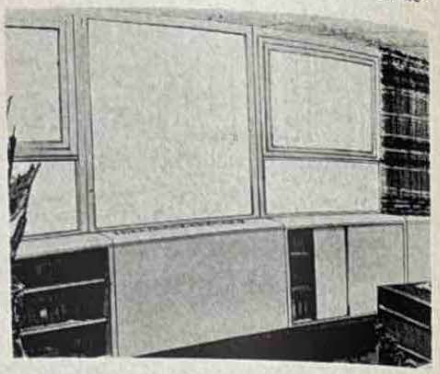


that of ordinary masonry and it is not affected by normal exposure to sun, extreme heat or freezing temperature. Panels are 4x8 ft., varying in thickness from ⅝ to ¾ in., and come in Palos Verdes, split roman and Arizona reproductions, in addition to the used brick shown here.—PanelStone.

(Item No. 4)

curtain wall panels

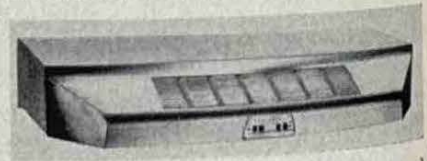
Intended particularly for true perimeter buildings such as motels, hotels, apartment houses and office struc-



tures, Lupton panels now have air conditioning units built in as an integral part of the curtain wall. From a construction standpoint, the panels eliminate cooling towers or bulky ductwork and plumbing connections; from the users' standpoint, they allow each occupant to tailor the temperature of his own area and also remove smoke and odors through their exhausts. Two types of interchangeable conditioners are available: a heavy duty unit to serve several people and a lighter model to serve only one or two—Michael Flynn Manufacturing Co. (Item No. 5)

no-duct range hood

A self-contained hood for gas and electric ranges which eliminates the need for vents, ducts and outside louvers



makes use of an activated charcoal filter to remove by absorption cooking fumes, odors, grease and smoke. The Nautilus can be installed easily in old houses or new ones; the fan requires no cabinet or shelf space. It is available in three models for installation on the wall, under cabinets and over ranges in peninsular arrangements. Sizes range from 24 to 28 in. in length; finishes include electroplated brushed antique and hammered copper, stainless steel and porcelain enamel in eight colors. (Item No. 6)

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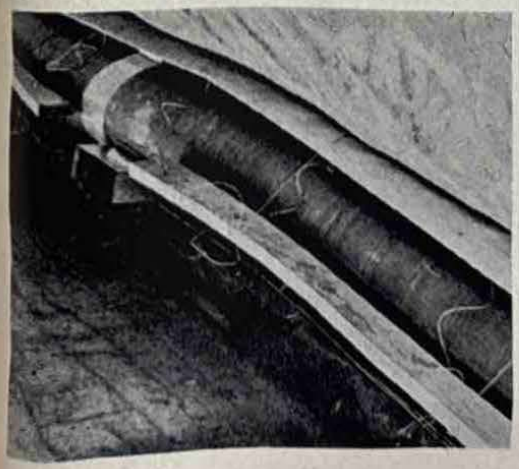
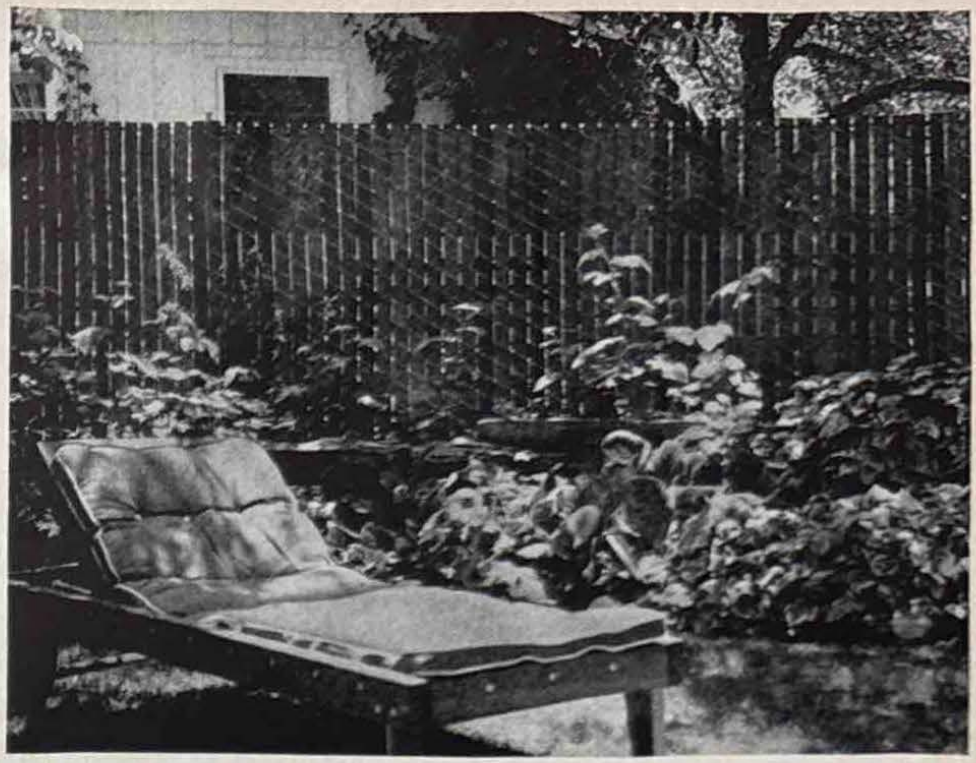
hole-sizing fasteners

A new concept in fastening, automatic sizing of drilled holes during fastener installation, has been developed by Huck, with two prototypes—displayed during several recent symposiums on the West Coast—expected to be put into production in 1959. One is a broaching fastener which automatically sizes the drilled holes with a four-step progressive broach that is integral with the fastener pin. Hole is sized during installation to produce an interference fit between hole and pin shank within the most strigent tolerances. Second hole-sizing lockbolt is an extruding fastener which is provided with an integral extruding land to bring the drilled hole to size during installation. This design produces the same results as the broaching fastener in the matter of controlled interference fit tolerances but does not permit as great an increase in drilled hole diameter.—Huck Manufacturing Co. **(Item No. 7)**

floor slab forms

Savings up to 50% in the amount of concrete used are reported with Sav-Crete forms for laying ducts for floor slab perimeter heating. Introduced in the Northwest and now being marketed nationally, the forms insure complete encasing of the duct to a predetermined thickness, prevent floating or shifting of the duct while concrete is being poured, keep dirt out of the concrete and permit accurate specification of the quantity of concrete needed for a given job. Only special materials required are the Sav-Crete spreader spring which is wrapped around the duct at intervals as a spacer and the Sav-Crete ply which is wrapped around the springs. Concrete poured into the top of the form flows freely between the springs and around the duct but cannot be spread into the trench. Sav-Crete can be used on ducts 4 to 36 in. in diameter, allowing either 2- or 3-in. thickness of concrete.—Eward Associates. **(Item No. 8)**





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TECHNICAL PUBLICATIONS

Catalog of Built-in Wood Cabinets (AIA 19). Southern California Association of Cabinet Manufacturers, 9126 S. Western Ave., Los Angeles 47, Calif., 1957. 40 pp. $2.

Technical manual of the principles of cabinet design and manufacture, including a discussion of wood and comparative merits of each type for cabinetmaking; has construction details for a variety of cabinets and list of association's specifications.

Specifications for Post-Tensioned Prestressed Concrete. Prestressed Concrete Institute, 425 N.E. Fifth St., Boca Raton, Fla., 1958. 4 pp. 35c each; $2.40 per dozen.

These tentative specifications cover definitions, materials, design stresses, design details and construction.

Proceedings: World Conference on Prestressed Concrete. World Conference on Prestressed Concrete, Inc., Room 216, 417 Market St., San Francisco 5, Calif., 1958. 600 pp. $10.

Contains 64 papers presented at the conference which drew 1,200 delegates from all over the world to San Francisco last year.

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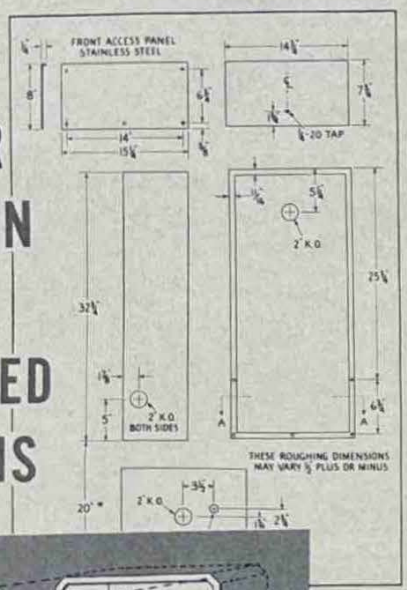

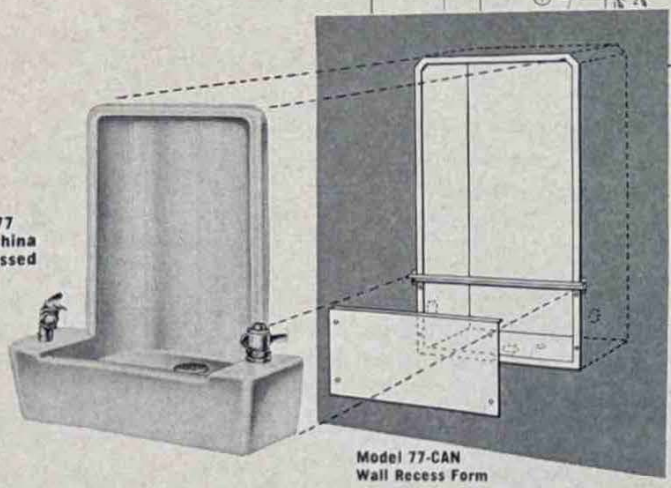

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Proceedings: 13th Conference of Reinforced Plastics Division (2 volumes). Society of the Plastics Industry, Inc., 250 Park Ave., New York 17, N.Y., 1958. $7.

Of special interest to architects and builders are papers on reinforced polyester acrylic panels and quality control, structural sandwich panels, building codes as applied to reinforced plastics building materials, plastics in the U.S. Pavilion at the Brussels World's Fair and reinforced plastics in architectural applications.

Manual of Accident Prevention in Construction. Associated General Contractors of America, Inc., 20th and E Sts. N.W., Washington 6, D.C., 1958. $3.25.

Fifth revised edition includes substantial alterations necessary because of developments in the past six years which have had a major effect on construction technology.

Tentative Specifications for Porcelain Enamel on Aluminum as Used for Signs and Architectural Applications. Porcelain Enamel Institute, 1145 19th St. N.W., Washington 6, D.C., 1958. $10 per 100 copies.

Specifications cover use on architectural panels, siding, framing, trim, signs and similar products designed for outdoor exposure, along with requirements for base metal, finish and thicknesses of coatings.

Drawing for Good Reproduction. National Association of Blueprint and Diazotype Coaters, 1757 K St. N.W., Washington 6, D.C., 1958. 32 pp. $1.

Written by Arthur H. Rau, drafting consultant of General Electric, the manual suggests techniques for improving reproductions; intended for use in mechanical drawing classes and reproduction departments.

Proceedings: Second Congress of the International Prestressing Federation. Federation Internationale de la Precontrainte, Terminal House, Grosvenor Gardens, London, S.W. 1, England, 1958. 990 pp. $15.

Treats new developments in prestressed concrete since First Congress in 1953; printed in three languages—English, French and German.

Building Exits Code. National Fire Protection Association, 60 Batterymarch St., Boston, Mass., 1958. 256 pp. $1.50.

Contains a number of amendments based on action taken at a recent annual meeting in Chicago, notably provisions on exits from private dwellings.

Building Codes: Compilation of Standards. American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa., 1958. 1060 pp. $8.

Contains over 200 standards in their latest forms, including 18 not included in the original 1953 edition or its 1956 supplement.

Land Planning Manual. National Association of Home Builders, 1625 L St. N.W., Washington 6, D.C., 1958. 264 pp. $5.

Second revised edition covers site considerations, utility systems, lot planning, shopping centers, proper methods of paving, layout of streets and lots to take maximum advantage of natural terrain.

University Technilog on Loudspeakers. University Loudspeakers, Inc., 80 S. Kensico Ave., White Plains, N.Y., 1958. 64 pp. $1.

Called "the sound planning handbook for architects and engineers," it is packed with technical and product information, charts, tables, etc.

Plastics in Building Illumination. Building Research Institute, 2101 Constitution Ave., Washington 6, D.C., 1958. 99 pp. $3.

First comprehensive treatment of plastics and their uses in building illumination, through daylight or electric sources.

Course in Making Mosaics. By Joseph L. Young. Reinhold Publishing Corp., 430 Park Ave., New York 22, N.Y., 1957. 60 pp. $3.50.

One of the few European trained mosaic muralists now executing major commissions for civic buildings, religious structures, medical centers and schools in the U.S., the Los Angeles author reveals the technique of this ancient art in a do-it-yourself book.

MOVIES

Door Control. Glynn-Johnson Corp., 4422 N. Ravenswood Ave., Chicago 40, Ill. 16mm sound, 20 min.

Dramatizes need for appropriate door control mechanisms as protection against costly damage to doors, jambs, hinges and locks.

Roof Decks Unlimited—with Perlite. Perlite Institute, 45 W. 45th St., New York 36, N.Y., 16mm sound, color, 20 min.

Features examples of perlite concete roof decks in contemporary architecture; shows construction details in application over formboard systems, steel decking, paper-backed wire mesh and metal lath.

Who Buys Built-in Refrigeration and Why. Revco, Inc., Deerfield, Mich. Slide film.

Results of a series of six owner surveys over a period of the last three years to determine buyer motivation and influences leading to the sale, along with opinions, preferences and "gripes."

An End to Color Confusion. Bestwall Certain-teed Sales Corp., 120 Lancaster Ave., Ardmore, Pa. 16mm sound, color, 15 min.

Shows development of Color-Tuned line of asphalt roofing and siding shingles, including five pastel blends, two dark blends and three solid colors.

Moving Sidewalks. Hewitt-Robins Inc., Stamford, Conn. 16mm sound, black and white, 15 min.

Shows how passenger conveyors can be used to move people in and around air terminals, shopping centers, stadiums, etc., with special attention given to six conveyors built for new airport at Dallas.

Penny a Pound. Calaveras Cement Co., 315 Montgomery St., San Francisco 4, Calif. 16-mm sound, color, 20 min.

Beginning with a 100,000-ton blast in one of the company's quarries at San Andreas, Calif., the film follows the cement manufacturing process all the way through to the finished product and its ultimate use.

Half-Second Butyrate—a Protective Coating for Exterior Aluminum Surfaces. Eastman Chemical Products, Inc., 260 Madison Ave., New York 16, N.Y. 16mm sound, color, 15 min.

Discusses laboratory and field tests made to determine effectiveness of coatings; describes in complete detail how exterior aluminum surface of a large industrial plant built in 1953 recently was restored and protected against further deterioration.

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T-SQUARE TALK

new offices, firms

Edward J. LaBelle has opened an office for the practice of architecture in the J. S. Ditty Building, Bellevue, Wash. A graduate of the University of Washington, he has been associated with the Corps of Engineers and more recently with several architectural firms in the Seattle area.

Carl B. Troedsoon, architect-planner and author of several books, including "The City, the Automobile and Man" published last year, has opened an office at 501 S. Boylston St., Los Angeles. Born in Sweden, he is a graduate of Columbia University and the Royal Institute of Technology in Stockholm, taught at the University of Southern California and most recently was associated with Victor Gruen Associates.

Krano, Wilson & Ziegler have begun a general practice of architecture at 2715 Center St., Tacoma.

Theron E. Smith has established an architectural office in the Denny Building, Walla Walla, Wash., under the name of Theron E. Smith & Associates. The Idaho State College graduate has been associated with several architectural and engineering firms in eastern Washington and Idaho.

Columbia-Cascade Corp. has been organized to coordinate programming, financing, design, land development and construction in the Northwest, with offices in the Fourth Avenue Building, Seattle. Officers are Robert J. Block, investor, president; John B. Skilling, principal of Worthington & Skilling, structural and civil engineers, and Perry Johanson, partner in Naramore, Bain, Brady & Johanson, architects, vice presidents; John L. Nordmark, executive vice president of Puget Planners, Inc., secretary; and James W. Cawdrey, of the firm of Cawdrey & Vemo, Inc., general contractors, treasurer.

Edwin G. Osness, architect in Billings for many years, has moved to Glendive, Mont., to establish offices in the Douglas Mead Building.

new associates

Harry M. Nakata has joined the Fresno, Calif., architectural office of Allen Y. Lew as an associate.

new addresses

Jensen & Gilham, architects, to 1962 N.W. Kearney St., Portland.

deaths

Roland R. Wilcken, 57, an architect for John Graham & Co. of Seattle, died November 12 following a heart attack. A graduate of the University of Minnesota, he came to Seattle in 1942 from Aberdeen, S.D.

elections

Southern California Chapter, AIA, has elected these officers: Maynard Lyndon, president; A. Quincy Jones, vice president; Howard Morgridge, secretary; Henry Silvestri, treasurer; and Arthur B. Gallion, director, three years.

Southern California Chapter, Construction Specifications Institute, has named George F. Lamb, specification writer, as president, succeeding Redmond Coghlan Jr., architect.

CORRECTION

John W. Maloney and John H. Whitney should have been credited as architects for the Junior-Senior High School in Yakima, Wash., a photo of which appeared in PA&B for November.

1959 Edition

GUIDE SPECIFICATIONS

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NATIONAL AWARD

for achievement in interior design for addition to Canlis' Charcoal Broiler Restaurant in Seattle is received by architects Roland Terry and Philip A. Moore from Mrs. Jule Wilkinson, food editor of Institutions magazine. Project, along with two others designed by Seattle architectural firm, was featured in PA&B for November.

Partnership is dissolved by Pereira and Luckman

One of the nation's largest architectural partnerships, which has been responsible for planning more than $1 billion in construction since 1950, was dissolved last month when William L. Pereira sold his shares of stock and other interests in Pereira & Luckman to Charles Luckman. The firm has been changed to Charles Luckman Associates, while Pereira has resumed his own practice as William L. Pereira & Associates, with offices in the new Union Oil Center in downtown Los Angeles.

The transaction, according to Luckman, included the basic conditions that Charles Luckman Associates 1) retain the staff, office personnel and facilities in Los Angeles and New York and 2) accept the responsibility of all existing client contracts.

Pereira organized the firm in January 1950 with Luckman, who had returned to architectural practice after serving as president of Lever Brothers. Luckman assumed the presidency and Pereira became chairman of the board in charge of planning and design. The partners studied architecture at the University of Illinois, from which both received degrees—Pereira in 1930, Luckman in '31.

In explaining his reasons for withdrawing from the firm, Pereira, who was advanced to fellowship for design in the AIA last spring, said: "This was a long and carefully considered decision. It is my conviction that I should limit the number of projects which my associates and I hope to undertake to those to which we can contribute the most and which we can follow through personally from beginning to end."

The firm received two citations for design in the 1958 national AIA competition.

MANUFACTURERS/SUPPLIERS

• **The Celotex Corp.** has appointed two new distributors on the West Coast: Intermountain Sales Co. of Pasco, Wash., and Ben E. Finley Co. of San Lorenzo, Calif.

• **Permanente Cement Co.** has expanded its Pacific Northwest sales division, headed by manager Ed Kendall. Leo McNett has been promoted to sales supervisor of the division's newly created Washington district and Douglas S. Ashton to a similar post in the Oregon district. Coordinating sales between the districts is Gordon K. Wilson, assistant division sales manager.

• **Trade-Wind Motorfans, Inc.,** of Pico Rivera, Calif., has been purchased by Robbins & Myers, Inc., of Springfield, Ohio, electric motor manufacturer. Trade Wind's sales force will remain intact but will be directed from the purchaser's Hunter Division in Memphis.

• **Architectural Plastics Corp.** has reopened its Seattle office at 3516 E. 115th St., with James B. Dobson as representative.

• **Radio Corporation of America** has named J. F. Ottmar Co. of Spokane as distributor of all types of sound and intercom systems.

• **Colt Ventilation of America, Inc.,** of Los Angeles has appointed Jack Janofsky, a specialist in microclimatology and former manufacturer's representative for the Kilbury blower type heater in southern California, to the firm's expanding technical consultant staff; and Reliable Steel Supply Co. of Los Angeles as distributor in southern California.

• **Graystone of Seattle, Inc.,** held an open house in October for 250 architects, contractors and structural engineers who toured the new block plant, completed at a cost of more than $300,000 and described by company engineers as "the most advanced-design installation of its type on the West Coast."

• **L. E. Carpenter & Co., Inc.,** has a new southern California distributor, Vicrtex Sales Corp. of Hollywood, with C. V. Roff as manager.

• **Armstrong Cork Co.** has established a new Seattle office, comprised of Oregon and Washington territories now operating out of San Francisco and portions of Washington, Idaho, Wyoming and all of Montana from the present Denver district office. Paul H. Hershey, who has been serving as an architectural specialist in the San Francisco Bay area since 1953, will manage the new office, beginning the first of the year.

• **Columbus Coated Fabrics Corp.** has appointed Wallpapers, Inc., of Portland and Seattle as its wall covering distributor in Oregon, Washington and Idaho.

• **Keasbey & Mattison Co.** has named John L. Prechek of Bellevue, Wash., former salesman in its asbestos-cement pipe division, as assistant manager of the San Francisco district.

• **Bethlehem Pacific Coast Steel Corp.** has begun operating its 32-in. blooming mill, one of the major new facilities in the company's $25 million expansion and modernization program in Seattle.

• **Kaiser Gypsum Co.** has named Deane W. Rockwell, previously architectural sales representative in southern California, to the post of technical

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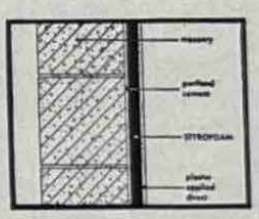

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sales engineer in the company's Oakland headquarters.

• **Weber Showcase & Fixture Co., Inc.,** of Los Angeles has reorganized its sales organization into two separate sections—retail and wholesale—with vice president J. L. Kaufhold heading the former, including Weber-Wall partitions.

• **Kaiser Manufacturing, Inc.,** has named Hal M. Blackburn Jr. as western division manager, with offices and plant in Los Angeles, as part of a five-district national network for the distribution of Crest tile setting products.

• **Carlon Products Corp.** has appointed Earl E. Eckstrom & Associates of Seattle as distributor for its line of plastic pipe and fittings.

• **Ador Corp.,** of Fullerton, Calif., has doubled the size of its sliding glass door plant in its latest expansion move.

• **Kaiser Steel Corp.** has appointed Kendall R. Peck as general sales manager for its fabricating division plant at Montebello, Calif.; and has put into operation at its Fontana, Calif., plant a new plate mill which will roll wider plate than has ever been produced in the Far West.

• **Mutual Plywood Corp.** of Eureka, Calif., has been purchased by United States Plywood Corp. for $7.5 million.

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• **Radford Supply Co.,** of Santa Maria, Calif., is completing a $125,000 addition to provide more manufacturing and warehouse facilities for its standard aluminum windows as well as a new type engineered for concrete block construction. The firm also has appointed Paul (Doc) Wright as representative in southern California.

• **The Payne Co.** of La Puente, Calif., has appointed William F. Steiner as sales manager.

• **Tom Benson Glass Co.** of Portland, wholsale firm operated by Tom and Adele Benson as a partnership since 1926, has been sold to Tom Benson Glass Co., Inc., for more than $250,000. Chet Patton of Portland, manager of the Oregon-Washington Plywood Corp. for the past six years, is president of the new corporation; Alan Green Jr. and Tom Benson are vice presidents; and Jerry Clancy remains as general manager.

• **American Blower Division,** American Standard, has appointed D. J. Kerby as Pacific Coast regional merchandise manager, with headquarters in Los Angeles.

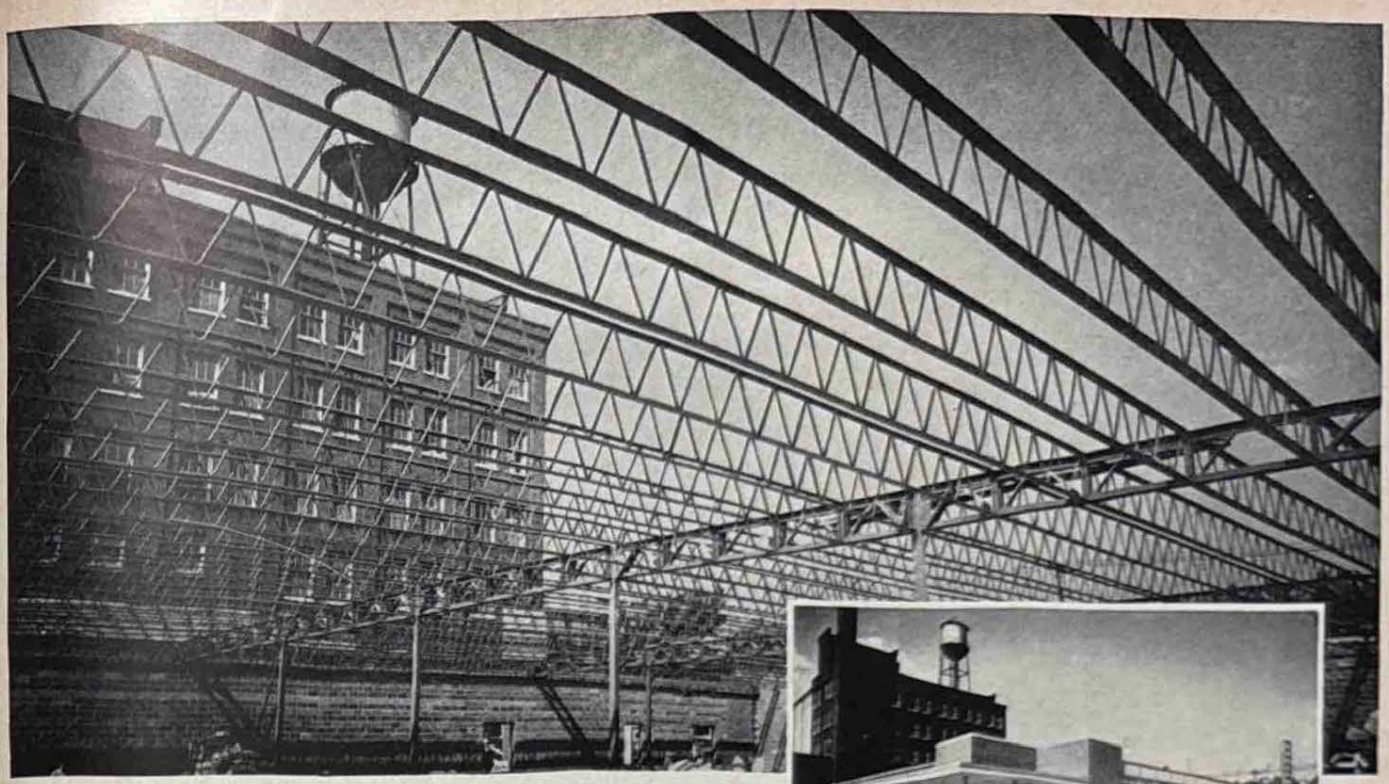
• **California Redwood Association** has elected Howard A. Libbey, president and general manager of Arcata Redwood Co., Arcata, to head a slate of officers which includes Philip T. Farnsworth, executive vice president, and Selwyn J. Sharp, secretary-treasurer (both reelected), and Willard E. Pratt, assistant secretary-treasurer (a new post).

• **Pacific Curtainwall, Inc.,** of Long Beach, Calif., has sold its controlling interest to Globe Hoist Co. of Philadelphia. General manager Douglas B. McFarland will continue overall management of Pacific Curtainwall, formed in 1956 to produce prefabricated sections of walls and windows.

• **Spanall of the Americas, Inc.,** has named R. L. Castendyk Co. of Honolulu as Hawaiian distributor for its horizontal shoring and related construction equipment.

• **The Siegler Corp.** of Los Angeles has two new vice presidents: Dan W. Burns and Robert T. Campion.

• **K S M Products, Inc.,** manufacturer of stud welding equipment and accessories, has established a new warehouse and sales office at 656 Folsom St., San Francisco; has appointed John T. Rayner as regional sales manager for the Pacific Coast; and has named F. Leonard Hultquist as sales manager



Kroger Supermarket, Charleston, W. Va. 145 x 140 foot wall bearing V-LOK frame. Upper photo shows framing completed—only 5 days after delivery of steel.

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in Los Angeles, where a new office has been opened at 1238 Atlantic Blvd.

• **Latrobe Steel Co.** has begun construction of a warehouse and office, costing $250,000, at 2919 Tanager Ave., Los Angeles.

• **A. M. Byers Co.** has named Robert B. McQuarrie of Seattle as Northwest Coast field service engineer.

• **Western Sound,** a southern California audio specialty house, has opened new headquarters at 17544 Ventura Blvd., Encino, working primarily through architects and builders.

• **Drywall Contractors Association** (Southern California) has elected Reuben L. Casey of Garden Grove as president.

• **Tubesales** of Los Angeles has appointed William C. Tagmeyer to the newly established position of manager of sales for its steel tubular products.

• **Holly - General Division,** Siegler Corp., of Pasadena has named Robert K. Miller, former General Electric Co. executive, as president.

• **Shale-lite Corp.** has opened a shale aggregate plant near Chino, Calif.

NATIONAL ASSOCIATIONS

• **Portland Cement Association** has named Hugh D. Barnes, manager of the western regional office in Los Angeles since 1956, to the new position of supervisor of field promotion. Cris Dobbins of Ideal Cement Co., Denver, has been elected chairman of the board of directors, which includes Richard A. Grant of California Portland Cement Co., Los Angeles.

• **American Institute of Steel Construction** has elected H. Buckley Dietrich of Brothers, Inc., Baltimore, as president. Among directors from the West Coast are J. J. Carlson, Kaiser Steel Corp., Los Angeles; J. Philip Murphy, Judson Pacific - Murphy Corp., Oakland; and S. G. Herrick, Herrick Iron Works, Hayward, Calif.

• **Lumber Dealers Research Council,** celebrating its 10th anniversary in Chicago last month, noted that more than 75,000 homes have been built with its system of modular, preassembled wood components.

• **Aluminum Window Manufacturers Association** has a new acting administrative secretary, John W. Bailey, succeeding Edward F. Kelly who died following a brief illness in May.

• **Asphalt Institute** has opened new headquarters for its Pacific Coast division at 810 University Ave., Berkeley, Calif.

• **Portland Cement Association** has opened its three-story structural laboratory, constructed above ground entirely of precast concrete building units, at Skokie, Ill.

• **Modular Building Standards Association** has employed its first executive director, Byron C. Bloomfield, formerly secretary for professional development with the AIA. MBSA was formed in 1957, with headquarters at 2029 K St. N.W., Washington, D.C.

• **National Association of Plastic Fabricators** has elected Henry M. Snyder of Sani-Top, Inc., Los Angeles, a director.

• **Illuminating Engineering Society** has elected George J. Taylor of Day-Brite Lighting, Inc., New York, as president. Among the regional vice presidents are James E. Barnes of San Francisco and Beverly A. Travis of Seattle.

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Construction News Bulletin

(A weekly summary of Pacific Construction Daily)

Vol. 64—No. 27 (PA&B) News Section of Pacific Architect and Builder December 20, 1958

Dorothy McCormick.....News Editor Rita Boshell.....Editorial Assistant

Dorene Davis, Katharine Tirrill, Anne Matthey.....News Staff

Win Romtvedt.....Portland Correspondent

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BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★SCHOOL ADDITION (Walker Elementary) Ashland, Ore.

Award to Loren S. Ritchie, 912 S. Oakdale Ave., Medford, Ore., $93,604, by Jackson County School District No. 5, Courthouse, Medford, for construction of an addition to the Walker Elementary School in Ashland. Plans by James L. Payne, architect, 611½ E. Jackson St., Medford.

Basic Bid — Construct six-classroom addition, install partition in office area of existing building. Alternate Bids: 1—addition of seventh classroom, 2—teachers' room, 3—remodel existing kitchen, 4—create new classroom in basement of present area, 5—substitute vinyl asbestos for vinyl tile floor covering.

One-story; frame on slab; cedar siding; 2" roof deck under 1½" fiberglass insulation; built-up roof; aluminum sash; acoustical tile on stripping; plywood on 5/6" gypsum board in corridors; unit ventilators hooked into existing heating system; fluorescent lighting. AM 12-17. Previous report 11-22

●CHURCH (Tower and Veneer Work)— Astoria, Ore.

Bids will be opened 7:30 p.m., December 30, by Zion Evangelical Lutheran Church, 565 12th Ave., Astoria, for 1—construction of a concrete tower, and 2—placing brick veneer on existing church. Plans may be obtained from Wicks & Brown, architects, 1129 Commercial St., Astoria. $10 deposit. Certified check, cashier's check or bid bond 5%.

Tower—There is an existing foundation on piling that was previously built for the proposed tower. The tower will be 80' high, concrete with brick veneer; open grillwork of redwood on two sides; aluminum openwork behind.

Church—The present church, which was left unfinished at time of construction ten years ago, will be covered with brick veneer. Cornices will be placed and the outside woodwork painted. AC 12-13

★RESIDENCE, GAS-OIL HOUSE— Brookings, Ore.

Award to Milton L. Powell, Creswell, $21,761, by U.S. Forest Service, administrative services section, 729 N.E. Oregon St., Portland (Box 4137), for construction of a one-story, wood frame, 57'x40' residence and a gas and oil house at the Brookings Ranger Station, Siskiyou National Forest, Curry County, Ore.; Bid No. R6-59-161.

WB 12-13. Previous report 12-9

CITY HALL— Central Point, Ore.

Tentative plans for construction of a new city hall are being made by the City Council, 148 E. Pine, Central Point. AC 12-12

▲HOUSING PROJECT—Condon AFS, Ore.

Bids were opened December 16 by U.S. Air Force, base procurement office, Geiger Air Force Base, near Spokane, Wash., for construction of 18 houses at Condon Air Force Station, Gilliam County, Ore.; Inv. No. 59-34.

Apparent low bids on first four items: Allied Construction Co., Inc., Box 124, Parkwater Station, Spokane, Wash., $265,600; Levage Construction Co., Box 2355, Parkland, Wash., $270,788; Harney Homes, Inc., Box 429, Burns, Ore., $281,900.

The single units are bidder-design. Included are one four-bedroom officer's house; five three-bedroom officers' houses; 12 three-bedroom airmen houses; utilities and site improvements; 18 attached garages.

DM 12-17. Previous report 12-13

★STORAGE BUILDING—Grant County, Ore.

Award to Nelson Bros. Construction Co., Bend, $4,816, by U.S. Forest Service, administrative services section, 729 N.E. Oregon St., Portland (Box 4137), for construction of a one-story, 60'x30', wood frame equipment storage building at Prairie City Ranger Station, Malheur National Forest, Grant County, Ore.; Bid No. R6-59-158.

WB 12-13. Previous report 12-6

▲ELEMENTARY SCHOOL, GYMNASIUM— Helix, Ore.

Bids were rejected on construction of a six-classroom elementary school and a gymnasium at Helix. Bids were opened December 9 by School District No. 1, Umatilla County, Helix. Plans were prepared by Wesley V. Korman, architect, Raley Bldg., Pendleton.

Four firms submitted figures: The Timber Co., Hermiston, $390,900; McCormack Construction Co., Pendleton, $395,240; Bechtel Bros., LaGrande, $397,637; Jensen Rasmussen Co., Sunnyside, $409,500; Edward Mardis, Pasco, $413,337.

School approximately 12,000 sq. ft.; gymnasium about 15,000 sq. ft. Both buildings one story, no basement. Frame walls in school, block in gymnasium; concrete slab floors for both; timber beams in school, steel rigid frame in gymnasium roof; flat roof; frame partitions in school, masonry in gym; aluminum windows; brick exterior wall finish; drywall interior wall finish; drywall interior partitions in school and exposed masonry in gym; maple flooring in gym, vinyl tile elsewhere; acoustical, exposed t&g ceilings; wood interior and aluminum exterior doors; wood cabinets; plastic panels; walk-in refrigeration in kitchen; fluorescent lighting in school, incandescent in gym; steam boiler oil-fired; heating and ventilating units, exhaust fans.

DM 12-13. Previous report 11-26

●ROCKET ASSEMBLY BUILDING (Modify)— Kingsley Field, Ore.

Bids will be opened 11 a.m., December 29, by Harry F. Keating, base procurement officer, 408th Fighter Group, Kingsley Field, for modifying the Rocket Assembly Bldg. on the field; IFB 59-19. Work involves replacing the concrete block wall between receiving room and missile assembly and test room in the buildings.

The site may be viewed between 9 a.m. and 3 p.m., Monday through Friday, by contacting the installation engineer, above address. ZZ 12-16

VORTAC FACILITIES (Building, Roads, Cable)— Klamath Falls, Ore.

Bids will be called soon by Civil Aeronautics Administration, procurement branch, 5651 W. Manchester Ave., Los Angeles, Calif. (Box 90007), for construction of standard Vortac Facility at Klamath Falls, Ore. (Sched. 1); Stockton, Calif. (Sched. 2); and Peters, Calif. (Sched. 3); Proposals No. 4-39-1025. Project involves erection of a prefabricated building on concrete slab; road construction, fencing; installation of underground cable and associated work. DM 12-13

HOSPITAL— Pendleton, Ore.

Plans to be held in abeyance until spring, for St. Anthony's Hospital, S.E. Court Place, Pendleton. Preliminary drawings have been completed by John W. Maloney, archit... 754 Central Bldg., Seattle.

PD 12-17. Previous report 1...

★WAREHOUSE-OFFICE BUILDING (Marsh)— Portland, O...

Contract negotiated with Reimers & Jollvette, 435 Builders Exchange Bldg., Portland, by Murray B. Marsh Co., 1810 S.W. Harbor Drive, Portland, for construction of a 100'x 171', two-level concrete warehouse-office building at 3934 S.W. Macadam Ave. Plans by Wolff & Zimmer, architects, Pearson Fourth Avenue Building, Portland.

The lower level will be used as warehouse, and upper level, office and display space for the company, a distributor for carpets and resilient floor coverings. Tilt-up concrete construction; reinforced floors; glued laminated beam roof; built-up roofing; upper floor will have porcelain metal panels on portion of exterior, industrial cork on some walls, suspended ceiling in some areas, skydomes and gas-fired, forced air heating system; wood overhead doors in warehouse.

WB 12-12

★SHOP ALTERATIONS— Portland, Ore.

Award to Russ Todd, 8333 S.W. Fir Grove Lane, Portland, $7,964 (basic less alternate), by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for modification of a shop addition to Bldg. T-736 at Portland International Airport; Inv. IFB-59-24.

WB 12-13. Previous report 11-20

★BUILDINGS REPAIRS (Roof)— Portland, Ore.

Award to A.B.C. Roofing Co., 8705 S.E. Foster Road, Portland, $20,642, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for roof repairs on 24 buildings at the airport;

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Construction News Bulletin

(A weekly summary of Pacific Construction Daily)

Vol. 64—No. 27 (PA&B) News Section of Pacific Architect and Builder December 20, 1958

Dorothy McCormick.....News Editor Rita Boshell.....Editorial Assistant

Dorene Davis, Katharine Tirrill, Anne Matthey.....News Staff

Win Romtvedt.....Portland Correspondent

Newsroom • 2418 Third Avenue, Seattle 1, Washington • Phone MAin 2-0285

BUILDING NEWS

Oregon, Washington, Idaho, Montana, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

★SCHOOL ADDITION (Walker Elementary) Ashland, Ore.

Award to Loren S. Ritchie, 912 S. Oakdale Ave., Medford, Ore., $93,604, by Jackson County School District No. 5, Courthouse, Medford, for construction of an addition to the Walker Elementary School in Ashland. Plans by James L. Payne, architect, 611½ E. Jackson St., Medford.

Basic Bid — Construct six-classroom addition, install partition in office area of existing building. Alternate Bids: 1—addition of seventh classroom, 2—teachers' room, 3—remodel existing kitchen, 4—create new classroom in basement of present area, 5—substitute vinyl asbestos for vinyl tile floor covering.

One-story; frame on slab; cedar siding; 2" roof deck under 1½" fiberglass insulation; built-up roof; aluminum sash; acoustical tile on stripping; plywood on 5/6" gypsum board in corridors; unit ventilators hooked into existing heating system; fluorescent lighting. AM 12-17. Previous report 11-22

●CHURCH (Tower and Veneer Work)— Astoria, Ore.

Bids will be opened 7:30 p.m., December 30, by Zion Evangelical Lutheran Church, 565 12th Ave., Astoria, for 1—construction of a concrete tower, and 2—placing brick veneer on existing church. Plans may be obtained from Wicks & Brown, architects, 1129 Commercial St., Astoria. $10 deposit. Certified check, cashier's check or bid bond 5%.

Tower—There is an existing foundation on piling that was previously built for the proposed tower. The tower will be 80' high, concrete with brick veneer; open grillwork of redwood on two sides; aluminum openwork behind.

Church—The present church, which was left unfinished at time of construction ten years ago, will be covered with brick veneer. Cornices will be placed and the outside woodwork painted. AC 12-13

★RESIDENCE, GAS-OIL HOUSE— Brookings, Ore.

Award to Milton L. Powell, Creswell, $21,761, by U.S. Forest Service, administrative services section, 729 N.E. Oregon St., Portland (Box 4137), for construction of a one-story, wood frame, 57'x40' residence and a gas and oil house at the Brookings Ranger Station, Siskiyou National Forest, Curry County, Ore.; Bid No. R6-59-161. WB 12-13. Previous report 12-9

CITY HALL— Central Point, Ore.

Tentative plans for construction of a new city hall are being made by the City Council, 148 E. Pine, Central Point. AC 12-12

▲HOUSING PROJECT—Condon AFS, Ore.

Bids were opened December 16 by U.S. Air Force, base procurement office, Geiger Air Force Base, near Spokane, Wash., for construction of 18 houses at Condon Air Force Station, Gilliam County, Ore.; Inv. No. 59-34.

Apparent low bids on first four items: Allied Construction Co., Inc., Box 124, Parkwater Station, Spokane, Wash., $265,600; Levage Construction Co., Box 2355, Parkland, Wash., $270,788; Harney Homes, Inc., Box 429, Burns, Ore., $281,900.

The single units are bidder-design. Included are one four-bedroom officer's house; five three-bedroom officers' houses; 12 three-bedroom airmen houses; utilities and site improvements; 18 attached garages. DM 12-17. Previous report 12-13

★STORAGE BUILDING—Grant County, Ore.

Award to Nelson Bros. Construction Co., Bend, $4,816, by U.S. Forest Service, administrative services section, 729 N.E. Oregon St., Portland (Box 4137), for construction of a one-story, 60'x30', wood frame equipment storage building at Prairie City Ranger Station, Malheur National Forest, Grant County, Ore.; Bid No. R6-59-158. WB 12-13. Previous report 12-6

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★BUILDINGS REPAIRS (Roof)— Portland, Ore.

Award to A.B.C. Roofing Co., 8705 S.E. Foster Road, Portland, $20,842, by 337th Fighter Group, Procurement Office, Portland International Airport, Portland, for roof repairs on 24 buildings at the airport;

Inv. IFB-59-27. Three additional bids were received December 10.
WB 12-13. Previous report 11-29

APARTMENT HOUSE (King Ave.)— Portland, Ore.
(Estimated cost $265,000)

Construction starting by owner-builder, Hebb & Narodick, 232 4th N., Seattle, on a five-story, 44-unit, concrete apartment house at S.W. King Ave. and Yamhill St., Portland. Plans by Detlie & Peck, architects, Securities Bldg., Seattle, and James G. Pierson, structural engineer, Portland.

Building will have outside balcony corridors, and space for swimming pool on ground floor; roof sun deck; off-street parking; 38 one-bedroom and five two-bedroom apartments; one efficiency unit. Reinforced concrete frame; concrete slab floors; concrete block bearing walls; some stone veneer; aluminum sash; non-burning, dry wall partitions; kitchenette units; electric heat; elevator. WB 12-13

HOTEL REMODELING— Roseburg, Ore.
(Estimated cost $100,000)

Remodeling is underway at the Umpqua Hotel, Emil Ramberg, proprietor, 612 S.E. Jackson, Roseburg, and will be completed in 1959. Improvements consist of furniture, conversion of adjoining rooms to two-room suites, remodeling the lobby, replacing the Jackston Street entrance structure, and installing tile showers and baths. Coen Supply Co., 427 S.E. Flood, Roseburg, will supply bathroom fixtures. KC 12-13

●BANK (U. S. National)— Salem, Ore.

Bids will be opened December 23 by the University Branch of the U. S. National Bank, 1310 State St., Salem, for construction of a one-story, 5,000 sq. ft. bank building across the street from the present office. Plans with John Grimmer Groom, architect, 2390 S. 12th, Salem.

Site for the new structure is 82'x166' on the northeast corner of State and 13th St. The building will be contemporary with wood, glass and fieldstone front and will feature floor to ceiling glass. It is hoped that construction can be completed by June. DC 12-17

★GRADE SCHOOL ADDITION—Tigard, Ore.

Award to Walker & Green, Route 3, Box 207, Oregon City, $107,535, by School District No. 23, Washington County, 13125 S.W. Washington, Tigard, for construction of an eight-classroom, concrete addition to Phil Lewis School. Plans by Annand, Boone & Lei, architects, 1530 S.W. Taylor St., Portland.

Second low bid was submitted by Barnard & Kinney, 4200 S.W. 103rd Court, Beaverton, $109,645; the high bid was by D-Diamond Corp., 2939 S.W. 2nd Ave., Portland, $126,735. Eleven bids were received December 11.

Addition to contain eight classrooms, each with individual toilet, storage room with toilet, control pit, and covered porch. Concrete slab floors; reinforced concrete shell with open web steel joists; frame partitions; lath and plaster walls; acoustical tile ceilings; asphalt tile flooring; extension of existing steam heating system; incandescent lighting; extension of sewage drainage field; some grading.
WB 12-13. Previous report 12-3

WASHINGTON

FERRY TERMINAL— Anacortes, Wash.

Don L. McKee, architect, 915 5th, Anacortes, has been retained by Port Commission, Lloyd Foster, manager, 1st and Comercial streets, Anacortes, to prepare plans and specifications for a ship harbor ferry terminal in Anacortes. KT 12-12

JUNIOR HIGH SCHOOL (Third)— Bellevue, Wash.
(Estimated cost $1,128,000)

Working drawings are nearing completion by Naramore, Bain, Brady & Johanson, architects and engineers, 904 7th Ave., Seattle, for a 32-classroom, 83,000 sq. ft., junior high school (third) to be constructed south of Eastgate near Sunset Elementary School, which is now under construction. Plans include a gymnasium, library, lunchroom, kitchen and classrooms.

One-story; steel columns; glued laminated beams; t&g decking; pumice block exterior walls; flat built-up roof, rigid insulation in roof; concrete slab-on-grade; metal sash; pumice block partitions; asphalt tile flooring, ceramic tile flooring in restrooms; oil-fired hot water boiler, forced hot air heating system. Contract includes furnishing and installing a septic tank. PD 12-12

●■ OFFICE BUILDING— Bellevue, Wash.

Bid opening time has been changed to 10 a.m., December 23 on construction of an 8,700 sq. ft. office building on 100 St. N.E., north of Frederick & Nelson's parking lot, Bellevue. Bids will be opened in the office of Mithun, Ridenour & Cochran, architects, 34 104th St. N.E., Bellevue. Previous bid opening time was 2 p.m.

Planholders: Roxbury Construction Co., 616 Mercer St., Seattle; Wick Construction Co., 720 N. 35th, Seattle; Hainsworth Construction Co., 3028 Western Ave., Seattle; Drummond Lane Construction Co., Box 77, Mercer Island; E. Brehm Construction Co., 9406 N.E. 32nd, Bellevue; John H. Sellen Construction Co., 228 9th N., Seattle; Hebb & Narodick, Construction Co., 4225 23rd W., Seattle; A. W. Robertson Construction Co., 9529 N.E. Lake Washington Blvd., Bellevue.

Two-story, partial basement; steel frame; long span steel joists; flat built-up roof; batt-type insulation in ceiling; wood curtain wall, Cemesto panels and glass; end walls of brick, stucco, concrete block (alternate); plaster partitions; acoustical plaster ceilings; vinyl asbestos (alternate, asphalt tile) flooring; gas-fired hot water heating, baseboard convectors; asphaltic concrete parking area for approximately 44 cars.
AM 12-12. Previous report 12-10

FIRE STATION— Bellingham, Wash.

The City Council, Bellingham and Richard Stradling, architect, Harold Bldg., Bellingham, are discussing plans for the proposed fire station to be erected on the southwest corner of Alabama and Iron streets in Bellingham. Possible civil defense aid money may be available for drill tower and pumping pool facilities which will be an integral part of the new building. Voters recently approved a special levy which would provide $85,000 for construction of a fire station and furnishing of a fire truck.
ET 12-12. Previous report 12-11

★FAMILY HOUSING— Blaine AFS, Wash.

Award to Van Werven & Van Andel, 517 Front St., Lynden, $278,798, by U.S. Air Force, base procurement office, Paine Air Force Base, for construction of 18 family housing units at Blaine Air Force Station; Inv. No. 58-97. Bid opening June 12.
AM 12-16. Previous report 6-13

ELEMENTARY SCHOOL ADDITIONS— Blaine, Wash.
(Estimated cost $142,500)

Bids will be called about January 20 by Blaine School District No. 503, Blaine, for construction of four elementary classrooms, library, one remedial room, radiant heating system, and installation of additional boiler in the Blaine school area. Plans by William Arild Johnson & Associates, architects, 3506 Broadway, Everett.
AM 12-12. Previous report 9-3

SCHOOL ADDITIONS— Blaine, Wash.
(Estimated cost $140,550)

Bids will be called about January 25 by Blaine School District No. 503, for construction of an addition to the existing Blaine Junior-Senior High School. Plans by William A. Johnson & Associates, architects, 3506 Broadway, Everett, call for wood frame with some brick veneer; asphalt tile on concrete floor; asphalt roofing; radiant heating. The addition will contain four classrooms, a remedial room and library, and will be connected to the existing building.
AM 12-12. Previous report 10-22

MUSEUM— Brewster, Wash.
(Estimated cost $75,000)

Durham, Anderson & Freed, A.I.A., architects, 1100 Denny, Seattle, have been retained by Washington Parks & Recreation Commission, Olympia, to prepare preliminary plans for a historical museum to be erected on a 40-acre site at Old Fort Okanogan, near Brewster, south of Chief Joseph highway, one mile east of the confluence of the Okanogan and Columbia rivers.
KT 12-13

●ELECTRICAL WORK (Green Hill School) Chehalis, Wash.

Bids will be received until 3 p.m., P.S.T., December 29 by Clyde J. Fenn, Jr., state supervisor of engineering and architecture, Room 219 General Administration Bldg., Olympia, for electrical work and relighting of classrooms at Green Hill School, Chehalis. Work will also include new breeching bypass, vacuum pumps, domestic hotwater heat exchanger, pipes and valves in utilities tunnel. Bids may be submitted separately or in combination. KC 12-12

▲BOILER, WATER SYSTEM— Chehalis, Wash.

Bids were opened by Department of General Administration, Room 218, General Administration Bldg., Olympia, for repairs to exterior walls and steel encasement of No. 1 boiler; repair of boiler stoker; and completion of water main loop system at Green Hill School for Boys in Chehalis. Bids were opened December 15.

BIDS — REPAIR WALLS, ENCASEMENT ON BOILER: S. M. Gilbert Co., Inc., 7100 E. Marginal Way, Seattle, $4,965; Kenneth George, Olympia, $5,600; Fraser's Boiler Service, Inc., 703 Dearborn, Seattle, $6,006. STOKER REPAIRS: Hendricksen Heating Service, 1060 Cehhalis St., Chehalis, $6,757; Fraser Boiler Service, $8,193. LOOP: Chinook Heating and Plumbing, RFD 10, Olympia, $5,775; Lewis Plumbing and Heating, Centralia, $6,921.
DE 12-17. Previous report 11-26

CHURCH (Baptist)— Clarkston, Wash.

Site has been selected for a new church building to be located at Chestnut and 13th streets, Clarkston, for the Clarkston First Baptist Church. AC 12-12

SCHOOLS— Clarkston, Wash.

Putnam & Dimke, A.I.A., architects, 412 6th, Lewiston, Idaho, have been retained by Clarkston School District J-250-185, William J. Harmon, superintendent, Clarkston, to prepare preliminary plans for: 1—addition to Poplar Elementary school; 2—addition to Clarkston High school; 3—construction of a new 13-to-15-classroom elementary school southwest of Clarkston.

In September, Clarkston School District voters approved a bond issue of $360,000 to finance construction, with state matching funds to help pay for the work.
KC 12-13. Previous report 9-19

HIGH SCHOOL— Colville, Wash.
(Estimated cost $680,400)

Plans have been approved and bids will be called in mid-January by Colville School District No. 115, for a new high school in Colville. Plans by Cowan & Paddock, A.I.A., architects, 1117 Larson Bldg., Yakima.
MH 12-12. Previous report 9-25

OFFICE BUILDING (Telephone Co.)— East Wenatchee, Wash.
(Estimated cost $109,000)

Tentative plans for construction of a subexchange office building in East Wenatchee are being considered for 1960 by the General Telephone Company of the Northwest, Spokane. MH 12-13

GRADE SCHOOL (Meadowdale)— Edmonds, Wash.

Bids will be opened in January by Edmonds School District No. 15, Box 308, Edmonds, for construction of a 39,000 sq. ft., seven-building, 20-classroom, campus type school on a site north of Edmonds on the northwest corner of Walnut Way and 168th S.W. (formerly called Upper Snake Road and Beverly Park Road), Snohomish County. Plans will be completed soon by Theo Damm, architect, 516 James St., Seattle.

Plans include five four-classroom units, an

administrative and library unit and a multi-purpose unit, all connected by covered walkways (incombustible).

One story; concrete slab-on-grade; three-ply built-up roof; 2" plank insulating material, which will include acoustical treatment and ceiling finish, and will be supported by open web steel joists; concrete block exterior walls; aluminum sash; 4" pumice block partitions, also some plaster board or plaster partitions in administration unit; asphalt tile flooring; central hot water heating serving individual heating units in each building; two asphaltic concrete areas adjacent to school.

DM 12-4. Previous report 11-13

YMCA BUILDING— Edmonds, Wash.

Construction is expected to start in April on a headquarters building for the Snoline YMCA to be located at 212th and Highway 99. Plans are being prepared by Dan Miller, architect, 404 Main St., Edmonds. Contractor is Eugene Shuck, 19822 Maplewood Drive, Edmonds. Consulting engineer is Ruskin Fischer, 17962 Aurora Ave., Edmonds. Plans call for a 24'x40' meeting hall, snack bar, office space, and future addition of a swimming pool.

A fund raising campaign will be started soon to raise $12,500 for the project.

HH 12-12

COLLEGE CLASSROOM BUILDING— Ellensburg, Wash.

(Estimated cost $955,836)

Preliminary plans are underway by Culler, Gale, Martell & Norrie, architects and engineers, Realty Bldg. Spokane, for 48,000 sq. ft., no basement education and psychology classroom building to be constructed on the campus for Central Washington College of Education, Ellensburg. Mechanical engineers are Lyle Marque & Associates, and electrical engineer is Joseph Doyle, both located in Realty Bldg., Spokane. Construction is scheduled for completion in September, 1960.

PD 12-12. Previous report 10-29

★GREENHOUSE (Junior College)— Everett, Wash.

Award to Metropolitan Construction Co., 1008 Broadway, Everett, $10,700, by Everett School District No. 2, Administration Bldg., Everett, for construction of a greenhouse at Everett Junior College. Seven bids were received December 1. Plans by Harold W. Hall, architect, Commerce Bldg., Everett.

One-story, 41'x38'; concrete footings and foundations; solid masonry walls; concrete slab floors; timber beams; shed-plastic roof; wood windows; brick exterior and interior; wood, enamel exterior and interior trim; plastic ceilings; wood doors; corrugated plastic panels; steam heat from existing boiler.

HH 12-12. Previous report 12-3

PLANT EXPANSION (E.A. Nord)— Everett, Wash.

Construction will soon be started on a 50,000 addition to existing door plant for E. A. Nord Co., Inc., 3rd and Norton, Everett. This is the first portion of a half-million dollar expansion program planned to extend over the next four to five years. Present plans include relocation of the plant's railway spur.

PC 12-17

▲THEATER— Fort Lewis, Wash.

Bids received December 16 by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of a 14,681 sq. ft. concrete frame theater building and outside facilities at Fort Lewis; ENG-45-108-59-22.

LOW BIDS: A. G. Homan, Box 38, Lacey, $301,300; H. Halvorson, Inc., 20054 Pacific Highway, Seattle, $305,500; G. Kirkebo & Son, Tacoma, $310,700. Engineer's estimate $313,764. There were seven bidders.

THEATER—Concrete masonry unit filler walls and partitions; steel roof trusses; insulated built-up roof; steam heating; ventilation system; theater seats.

OUTSIDE UTILITIES—Clearing, grading, sanitary sewer, storm sewer, water lines, electrical service, steam distribution lines from existing distribution system, portland cement concrete walks, asphaltic concrete drives and parking areas, seeding and planting.

AM 12-17. Previous report 12-10

●HOUSING (Capehart)—Fort Lewis, Wash. (Estimated cost $12,000,000)

A tentative bid opening date of January 29 has been set by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of 856 units of Capehart family housing, including utilities at Fort Lewis; ENG-45-108-59-40.

Basis of award will be 1—to separate bidders on all three projects. 2—to separate bidders on Project 3 and to separate bidders on Projects 4 and 5, 3—to one bidder on all three projects.

Completion time 480 calendar days for any individual project, 510 days for two projects and 540 days for all three projects.

Plans for Project 3 were prepared by Jones, Lovegren, Helms & Jones, architects, 706 Republic Bldg., Seattle; plans for Projects 4 and 5 by Miller & Ahlson, architects, 1410 Hubbell Place, Seattle. Associated with the architects were Roy L. Gardner, civil engineer, Arctic Bldg., Seattle; Johnson & Duncan, electrical engineer, 233 Eastlake, Seattle; and James B. Notkin & Associates, mechanical engineer, 233 Eastlake, Seattle.

Project 3—A total of 274 units consisting of 132 two-bedroom units and 142 three-bedroom units. Structures will be erected in the following locations: in a wooded area near the officer's club at American Lake, adjacent to the 375 unit Capehart housing project now under construction, adjacent to Madigan Hospital and on Davis Hill in Fort Lewis.

Projects 4 and 5—A total of 308 units, including 136 two-bedroom and 172 three-bedroom dwellings, for Project 4. A total of 274 units, including 136 two-bedroom and 138 three-bedroom for Project 5. To be located on four sites within Fort Lewis grounds; north and northeast of Miller Hill and south of Stryker Ave. and east of S. 7th St.

Work will include rough grading for roads as well as buildings, construction of water, sanitary sewer, storm sewer, electric power and telephone system, asphaltic concrete paving for roads and driveways, concrete walks and topsoiling and seeding.

All except 16 N.C.O. units are one-story buildings to be built as duplexes with carports separating the houses. Officer units at American Lake and near the hospital are one-story houses. Plans for these 638 units call for concrete foundations and floor slab-on-grade; wood frame walls; trussed rafters; cedar siding; aluminum windows; asphalt shingles; drywall interior finish; asphalt and vinyl asbestos tile floor covering; wood or metal kitchen cabinets; flush panel fir doors and fir trim; hot air heating with down draft furnace and under floor ducts; oil burner and oil storage tank with each unit; copper tubing for water piping.

Two-bedroom NCO units will have one bath, and three-bedroom NCO units 1½ baths. Officer units have 1½ and two baths for two- and three-bedroom units. There is partial brick veneer on Field Grade houses. Units are designed for prefabrication with modular dimensions (contractor may use own methods).

Officer units in Projects 4 and 5 are two-story duplex structures; wood frame on concrete foundations with first floor slab and other features similar to one-story units.

Alternate bids will be taken for substituting three-bedroom units for all two-bedroom units; copper for galvanized iron or aluminum sheet metal work; plaster or two thicknesses of gypsum wallboard for one thickness of wallboard; outside clothes dryer; concrete patios; brick fireplaces; planter boxes.

Exterior finishes will use three types of cedar siding; a hardpressed fiberboard with wood battens. Interiors will have panels of plastic surfaced plywood.

DM 12-16. Previous report 12-12

BANK (National Bank of Washington)— Fort Lewis, Wash.

Bids from a select list of bidders will be called soon for construction of a branch bank at Fort Lewis, for National Bank of Washington, Tacoma. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma.

PD 12-16

ELEMENTARY SCHOOL (Harbor Heights)— Gig Harbor, Wash.

Bids will be called the latter part of January by Peninsula School District No. 401, C. H. Howe, superintendent, Star Route, Box 575, Gig Harbor, for construction of a two-classroom addition to Harbor Heights Elementary School, Route 2, Gig Harbor. Working drawings are near completion by Charles Rueger & Associates, architects, 225 S. Tacoma, Tacoma.

PD 12-17

SWIMMING POOL— Hoquiam, Wash.

Bids will be called for the second time after the first of the year by City Council, City Hall, Hoquiam, for construction of a municipal swimming pool for Hoquiam. Revised plans are nearing completion by Dale D. Pedersen, architect, 306 Grosvenor House, Seattle. Bids were previously opened on August 25, and subsequently rejected. Low bidder was Andy Johnson & Co., 517 Simpson Ave., Aberdeen, $279,950.

One-story and mezzanine; pumice block; steel columns; 75'x115' with 14'x21' stair tower appendage; glued laminated beams; timber decking; concrete floor; Kawneer sash; mezzanine will have resilient tile flooring; pool will be 35'x75', with poured concrete structural frame, gunnite lining. The building will be constructed on piling.

PD 12-12. Previous report 11-28

★CHURCH— Kelso, Wash.

Contract negotiated with low bidder, K. T. Henderson, Inc., 1362 Colorado, Longview, $93,527, by First Presbyterian Church, 3rd and Academy, Kelso, for construction of a concrete and brick veneer, 4,000 sq. ft. sanctuary building on site of existing sanctuary. Plans by Weaver & LaLonde, architects, Central Bldg., Vancouver.

WB 12-13. Previous report 10-30

ELEMENTARY SCHOOL— Lacamas, Wash.

Bids will be called in January by Lacamas School District No. 324, Route 1, Box 142, Roy, for construction of a two-classroom, one-story, 3,000 sq. ft. elementary school in Lacamas. Working drawings are near completion by Marshall W. Perrow, architect, 634 S. Trafton, Tacoma.

Wood frame; concrete slab-on-grade; T-111

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plywood exterior; metal sash; drywall partitions; oil-fired hot air heating. PD 12-16

■MAGAZINE ADDITION— Larson AFB, Wash.

Planholders announced on construction of one six-cubicle, magazine building addition; one 13-cubicle magazine storage building; related facilities at Larson Air Force Base, near Moses Lake, Grant County; ENG-45-164-59-9. Bids will be opened 2:45 p.m., P.S.T., December 23, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla.

Planholders: Yager Construction Co., Inc., 132 A St. S.E., Ephrata; A. J. Cheff Construction Co., 10054 W. Marginal Way, Seattle; Hugh S. Ferguson Co., 1927 1st Ave. S., Seattle; P & B Co., Inc., E. 8903 Main Ave., Spokane; L. D. Shilling Co., Inc., Box 1637, Moses Lake; Warner & Brown, Inc., N. 2904 Madelia St., Spokane; Peter Kiewit Sons' Co., Box 1777, Vancouver; R. L. Martin & Son, Portland, Ore.; McAtee & Heathe, Inc., Box 4187, Station B, Spokane; Mountain States Construction Co., Box 648, Edgemont Branch, Golden, Colo.; Osberg Construction Co., 1132 N. 128th, Seattle; Ruud Construction Co., 403 Realty Bldg., Spokane; Duncan Construction Co., Box 582, Moses Lake; Erwen Construction Co., 831 S. 4th, Pasco; Floyd R. Grubb, 1305 20th S.E., Salem, Ore.; H. Halvorson, Inc., Box 6, Yardley; Hansen & Parr Construction Co., W. 315 Boone Ave., Spokane; Holman Erection Co., Box 1035, Pasco; Lewis A. Hopkins & Co., 221 S. 3rd, Pasco; Jensen-Rasmussen & Co., Box 89, Sunnyside; J. C. Kelley Co., E. 3008 Trent Ave., Spokane; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Columbia Construction Co., Box 275, Moses Lake.

Project involves 1—construction of one standard six-cell cubical, reinforced concrete ammunition storage building addition approximately 1,660 sq. ft. and construction of one standard 13-cell cubical reinforced concrete ammunition storage building, 2—construction of approximately 14,700 sq. ft. asphaltic concrete pavement, 3—construction of 15" culvert, 4—site grading.

DM 12-16. Previous report 11-28

SWIMMING POOL— Longview, Wash.
(Estimated cost $250,000)

Bids will be called after January 1 by Longview School District No. 112, Scott Milligan, superintendent, 28th and Lilac, Longview, for construction of an L-shaped, 122'x122' building to contain an 82'x75' poured concrete swimming pool, at Lower Columbia Junior College, west of Mark Morris High School gymnasium. Working drawings are near completion by McGuire & Muri, architects, 231 Broadway, Tacoma.

Slanted built-up roof, rising to a height of 28'; t&g decking; rigid insulation in roof; brick veneer over concrete block walls (locker portion); reinforced concrete; upper portion of building will have plastic panels set in sash; lower part will be vertical lift glass doors, opening pool to outdoor area in warm weather; connection with existing steam heating system; cement concrete terrace with 30' wading pool.

PD 12-17. Previous report 11-5

★JUNIOR COLLEGE— Longview, Wash.

Awards announced on construction of six additions, campus plan, totaling 80,000 sq. ft. at lower Columbia Junior College in Longview. Bids were opened December 3 by Longview School District No. 122, 28th and Lilac, Longview. Architects are McGuire & Muri, 231 Broadway, Tacoma.

AWARDS—K. T. Henderson, 1362 Colorado, Longview, $810,642 (general); Longview Plumbing and Heating Co., 1146 Commerce, Longview, $263,764 (mechanical); Tice Electric Co., 2139 S.E. Belmont, Portland, Ore., $108,128 (electrical).

APPLIED ARTS BUILDING—Two wings, 66'x192' and 66'x96', with a 32'x40' connecting wing to form a U.

GYMNASIUM—About 112'x144' with a 44'x112' area over the lockers room to provide physical education facilities.

HEATING PLANT—A 20'x33' addition to the existing building, and installation of additional package-type boiler with combination oil and gas burner. The plant is to provide steam serving unit ventilators and convectors in the various campus buildings.

STUDENT CENTER—Approximately 161'x112' with a portion of the building narrowing to 88' width.

ADMINISTRATION BUILDING—One-story 32'x104' structure, built on stilts to provide a sheltered access to the adjacent music-speech building.

FINE ARTS—About 101'x140'; to constitute the loft-type stage element of a future auditorium building.

General Construction of All Buildings—Concrete slab-on-grade; reinforced concrete and brick cavity exterior walls; wood floors over crawl space; glued laminated beams, wood joists, wood decking, built-up roofing over insulation; galvanized steel sash and steel, aluminum and wood doors; plaster, acoustical tile and suspended acoustical ceilings; asphalt and ceramic tile flooring; fluorescent and incandescent lighting; luminous fluorescent lighted ceiling in applied arts building. DM 12-12. Previous report 12-5

★ROOFING— Makah AFS, Wash.

Contract has been conditionally awarded to Deming Roofing & Sheet Metal Co., 1319 W. Nickerson St., Seattle, $1,987, by U.S. Air Force, base procurement office, Paine Air Force Base, for repairing roofs on the transmitter building and receiver building at Makah Air Force Station, Neah Bay; Inv. No. 45-602-59-52. Bid opening November 13. The order to proceed will not be issued until funds have been received.

HH 12-13. Previous report 11-15

▲ELEMENTARY SCHOOL (Tulalip Reservation)— Marysville, Wash.

Bids were opened December 11 by Marysville School District No. 25, Marysville, for construction of a one-story, 22,343 sq. ft. elementary school on the Tulalip Reservation. Plans were prepared by Harry E. Botesch, architect, and F. Edward Brown, associate, 504 Commercial Bldg., Everett.

General, LOW BASIC BIDS: Venne Beauchamp, 2934 Broadway, Everett, $226,192; Newland Construction Co., Box 230, Everett, $228,575; Frank Damson, Route 2 Everett, $228,800.

Mechanical, LOW BASIC BIDS: Callahan Plumbing & Heating Co., 3211 Broadway, Everett, $33,154; Stoll & Freese Plumbing & Heating, 103 W. Main, Edmonds, $33,999; Glantz Supply, 2732 Hoyt, Everett, $35,-050.

Electrical, LOW BASIC BIDS: MacInness Electric, 221 State St., Marysville, $62,499; Ewing Electric, Inc., 535 Main, Edmonds, $72,200; Maier Electric, 2008 Hewitt, Everett, $72,536.

Reinforced concrete footings, foundation; solid masonry walls; concrete slab floor; steel "tee" columns; glued laminated beams; masonry partitions; concrete stairway; aluminum windows; insulation of basic 1" rigid over 2"x6" t&g decking; masonry exterior wall finish with lead and oil trim; lead and oil, stain and varnish interior finish; exposed masonry interior partitions; asphalt tile, ceramic tile flooring; acoustical ceiling of perforated tiles over stripping; hollow metal exterior doors, wood for other doors; plastic surfaced cabinets; refrigeration in kitchen; blackboards; fluorescent and incandescent lighting; electric heat; motor exhausters in ventilating system.

DM 12-12. Previous report 12-5

▲DORMITORY REMODELING— McChord AFB, Wash.

Bids were opened December 15 by U.S. Air Force, procurement office, McChord AFB, for remodeling a dormitory at the base; Inv. No. 59-51.

LOW BIDS: G. Kirkebo & Sons, 1410 Mountain View, Tacoma, $76,410; Absher Construction Co., 1109 25th St., Puyallup, $79,194; Jardeen Bros., 1240 S. Sprague, Tacoma, $79,759.

AM 12-16. Previous report 12-12

▲AIR FORCE BUILDING (Readiness Crew)— McChord AFB, Wash.

Bids received December 16 by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for construction of readiness crew building, 70-man capacity, at McChord Air Force Base; ENG-45-1508-59-29.

LOW BIDS: Quality Builders, 5220 S. Orchard, Tacoma, $407,400 (basic), $412,000 (with additive alternates); A. G. Homan, Box 38, Lacey, $412,950, $417,230; Walker & Florence, Bellingham, $413,700, $417,250. Engineer's estimate $404,261, $411,161. There were 10 bidders.

Work consists of 1—construction of a reinforced concrete and masonry building of approximately 20,000 sq. ft. with steel joists, metal roof deck, insulated built-up roof, 2—mechanical, electrical, ventilation and food service equipment, 3—grading asphaltic concrete pavement, water, sewer and electrical service, lawns.

AM 12-17. Previous report 11-26

PENITENTIARY BUILDING— McNeil Island, Wash.

Bids will be called soon by David Heritage, warden, McNeil Island Penitentiary, for construction of a vocational industries building at the prison. Prison labor will be utilized for part of the work. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma.

PD 12-16

●HIGH SCHOOL ADDITION—Menlo, Wash.

Bids will be opened 8 p.m., January 14, by Willapa Valley School District No. 160, Menlo, for construction of a 19,000 sq. ft. wood-frame, four-classroom and multipurpose room addition to the Willapa Valley High School at Menlo, Pacific County. Plans with William Arild Johnson & Associates, architects and engineers, 3506 Broadway, Everett. $25 deposit on general, $15 each on mechanical and electrical. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical and electrical.

Wood frame; wood floors except for concrete slab-on-grade in kitchen and boiler room; siding; wood sash; glued laminated beams on 2"x6" t&g decking; wood sash with alternate of composition shingles for roofing; drywall interior with exposed decking; plasterboard or acoustical tile ceiling; asphalt, quarry and ceramic tile flooring with some maple in multipurpose area; steam with unit ventilators and volume heating. DM 12-13. Previous report 10-9

▲ELECTRICAL SERVICE— Monroe, Wash.

Bids were opened by Department of General Administration, General Administratoin Bldg., Olympia, for electrical service to the Industrial Furniture Factory at the Washington State Reformatory at Monroe. BIDS: Industrial Electric, Everett, $8,646; Belden Electric, Everett, $9,766; Marysville Electric, Marysville, $10,884. Bids were opened 12-2.

DE 12-17

ELEMENTARY SCHOOL—Montesano, Wash.

Preliminary drawings are underway by E. L. Mills & Associates, architects, 308 S. Tacoma, Tacoma, for an elementary school at Wheeler Field in Montesano, for Montesano School District No. 124, 418 Spruce St., Montesano. Plans for this project have been started and postponed several times. A $430,000 bond issue to finance the construction was approved by voters at the September 9 election.

PD 12-17. Previous report 9-16

JUNIOR HIGH SCHOOL—Oak Harbor, Wash.
(Estimated cost $637,506)

Bids will be called following state approval of plans by Oak Harbor School District No. 201, Wilbur Gilbert, superintendent, Oak Harbor, for construction of the one-story, 52,986 sq. ft., 18-classroom Oak Harbor Junior High School. Plans by Charles Rueger & Associates, architects, 225 Tacoma Ave. S., Tacoma.

Building will contain 18 classrooms, gymnasium, shower and locker rooms, kitchen facilities, administration area, library, music room.

Structural components—concrete footings, foundation; block walls with brick veneer; concrete slab floor; glued laminated beams; flat roof with steel in gymnasium; masonry and frame partitions; aluminum windows with steel alternate; porcelain enamel insulated panels. Finish construction — brick veneer, aluminum trim; exposed masonry, drywall, painted partitions; maple floor in gymnasium; other flooring of asphalt, vinyl and ceramic tile; acoustical ceilings; wood doors and cabinets. Plastic skylights, black-

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PD 12-16. Previous report 9-17

●POST OFFICE— Oroville, Wash.

Bids will be received until January 20 by Post Office Department, Dixon J. Garner, Real Estate Officer, Box 1454, Spokane (Phone Temple 8-2511), for construction of 3,742 sq. ft. post office quarters at Central and Golden streets, Oroville. The quarters will be leased to the post office department for 10 years, with two 5-year renewal options. The price of the site is $4,800.

Information from above real estate officer. In addition to the 3,742 sq. ft. of interior space, 11,700 sq. ft. of parking and maneuvering space and 540 sq. ft. platform will be required. WB 12-13

★HEATING PLANT— Paine AFB, Wash.

Contract has been conditionally awarded to L. G. Massart, 4501 9th N.W., Seattle, $7,856, by U.S. Air Force, base procurement office, Paine Air Force Base, on modification of heating plant in Bldg. No. 703 at the base; Inv. No. 45-602-59-45. Bid opening October 26. The order to proceed will not be issued until funds have been received.

HH 12-13. Previous report 10-4

★REPLACE CEILING, FLOORING, WALLS— Paine AFB, Wash.

Contract has been conditionally awarded to Sanford Wright, 2929½ Wetmore, Everett, $18,733, by U.S. Air Force, base procurement office, Paine Air Force Base, on replacing ceiling, flooring, walls in the Bowling Alley (Bldg. No. 403) at the base; Inv. No. 45-602-59-46. Bid opening November 4. The order to proceed will not be issued until funds have been received.

HH 12-13. Previous report 11-6

★FIRE ALARM SYSTEM—Paine AFB, Wash.

Contract has been conditionally awarded to Fire Detection & Burglar Alarm Co., N. 1317 Howard, Spokane, $1,347, by U.S. Air Force, base procurement office, Paine Air Force Base, for installation of fire deduction system in Bldg. No. 335 at the base; Inv. No. 45-602-59-54. Bid opening November 25. The order to proceed will not be issued until funds have been received.

HH 12-13. Previous report 11-28

★PARTITIONS, FLOORING, SHINGLING— Paine AFB, Wash.

Contract has been conditionally awarded to Frank Damson, Route 2, Everett, $4,950, by U.S. Air Force, base procurement office, Paine Air Force Base, for modification to Bldg. No. 762 at the base; Inv. No. 45-602-59-53. Bid opening December 4. The order to proceed will not be issued until funds have been received.

Work involves 1—covering existing walls and ceiling with ½" gypsum wallboard and insulation, 2—covering concrete floor slab with asphalt tile, 3—modifying workout room floor slab by overlaying with hardwood floor, 4—providing enameled hardboard wainscoting 4' high around all walls, 5—covering existing exterior siding with cement-asbestos shingles, 6—providing all other carpentry, framing, millwork required to finish interior.

HH 12-13. Previous report 11-11

LIBRARY— Pullman, Wash.
(Estimated cost $120,000)

Site for construction of a new library in Pullman has not yet been selected. Plans are being drawn by Kenneth Storment, architect, Hutton Bldg., Spokane. In the November 4 general election voters of Pullman passed a bond issue of $100,000 for the project. Balance of the amount necessary will be secured from private gifts.

KT 12-5. Previous report 11-8

WOMEN'S DORMITORY (WSC)— Pullman, Wash.

The WSC Board of Regents, 303 Administration Bldg., Washington State College, Pullman, have empowered Walker, McGough & Trogdon, architects, Great Northwest Life Insurance Bldg., Spokane, to do site selection work and prepare preliminary plans for a 300-woman dormitory with dining facilities, on the campus.

Costs, construction schedule, bid calls and completion of plans have not yet been named. MH 12-5

DORMITORIES AND DINING HALL (WSC)— Pullman, Wash.
(Estimated cost $2,500,000)

Lea, Pearson & Richards, A.I.A., architects, 240 S. Stadium Way, Tacoma, have been authorized by the Board of Regents, 303 Administration Bldg., Washington State College, Pullman, to prepare plans for two six-story 300-man dormitories and a dining hall for approximately 1,000 on the campus, to be completed in 1961. MH 12-5

SCHOOL CONSTRUCTION—Puyallup, Wash.

Puyallup citizens committee for education has recommended to School District No. 3, Paul B. Hanawalt, superintendent, 605 Main St., Puyallup, that a special election be held as soon as possible for a bond issue in the amount of $600,000 to provide funds for elementary school construction and remodeling. Voters defeated the original bond issue in the November 4 general election.

KC 12-5. Previous report 11-12 (School Remodeling)

★ADMINISTRATION BUILDING (Fair Grounds)— Puyallup, Wash.

Construction has started by Standard Construction Co., 315 E. 25th, Tacoma, on the two-story, 7,728 sq. ft. administration building on the fair grounds in Puyallup, for Western Washington Fair Association. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma. Contract was awarded to above contractor for $81,332 (basic plus alternates).

Steel frame; exposed steel beams and columns; slight pitch in roof, with built-up roofing, rigid insulation in roof; cement plaster exterior; aluminum sash; wood stud, plaster partitions; gas-fired hot water heating. PD 12-13

★HEATING SYSTEMS— Quinault Ranger Station, Wash.

Award to Reliable Sheet Metal, Russell and 20th N.W., Seattle, $2,500, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland, Ore. (Box 4137) for installation of oil-fired, forced warm air heating systems in two government-owner residences at Quinault Ranger Station, about 30 mi. northwest of Hoquiam, Olympic National Forest, Grays Harbor County, Wash.; Bid No. R6-59-142.

WB 12-13. Previous report 11-20

★RESIDENCE— Randle Ranger Station, Wash.

Award to Walter L. Daggett Construction Co., 16744 32nd N.E., Seattle, $18,505, by U.S. Forest Service, regional contracting officer, 729 N.E. Oregon St., Portland, Ore. (Box 4137), for construction of a residence at Randle Ranger Station on the Gifford Pinchot National Forest, Lewis County, Wash. WB 12-13. Previous report 11-29

★EQUIPMENT BUILDING (Telephone Co.) Raymond, Wash.

Award to Lamb Construction Co., foot of F St., Aberdeen, (amount not announced) by Pacific Telephone and Telegraph Co., Seattle, for construction of a one-story, 43'x76', major telephone equipment building on the corner of 4th and Commercial streets in Raymond.

The structure will be erected on piling and will be faced with brick. The contact also calls for off-street parking.

DM 12-13. Previous report 11-19

RESIDENTIAL DEVELOPMENT (Benson Hill)— Renton, Wash.

Howard Parker & Associates, developers of Green Hills addition, a proposed 1,000-home residential section on Benson Hill in Spring Glen district, Renton, are revising plat plans to include a school site and relocation of power lines. Area will be bounded by 116th Ave. S. and S.E. 160th St., Renton. PC 12-5

MOTEL (Camlin)— Seattle, Wash.

Architects Thomas F. Hargis, Jr., and Clarke Goldworthy Associate, Miller Bldg., Yakima, have been retained to prepare plans for a motel addition to the existing Camlin Apartment Hotel at 1619 9th Ave., Seattle. IG 12-5

CHURCH ADDITION ALTERATIONS (North City)— Seattle, Wash.

Preliminary drawings nearing completion by Robert F. Rathjen, architect, 213 Lake St. S., Kirkland, for an 8,000 sq. ft., one-story and basement addition and for alterations to North City Free Methodist Church, Donald V. Atkinson, pastor, 17424 5th N.E., Seattle. Addition will include Sunday School rooms, combination social hall and chapel, nursery, restrooms and kitchen. Alterations will include renovation of existing building and a new exterior. PD 12-5

CHURCH ADDITION, REMODELING (Highland Park)— Seattle, Wash.

Preliminary drawings have been completed by Robert F. Rathjen, architect, 213 Lake St. S., Kirkland, for an addition and remodeling of existing church for Highland Park Church of the Nazarene, Arthur Mottram, pastor, corner of 9th S.W. and Cloverdale, Seattle. Existing nave will be remodeled into chapel and Sunday School rooms. Addition will include nave with social room below. PD 12-5

▲COMMUNITY BUILDING— Seattle, Wash.

Bids received by Normandy Park Community Club, Inc., Seattle, for construction of the 60'x120', one-story, Normandy Cove Community Park Bldg., in Normandy Park. Plans by Steinhart, Theriault & Anderson, architects, 1264 Eastlake Ave., Seattle.

Nine bids received at December 10 bid opening. LOW BIDS: O & W Builders, 740 S. 216th St., Des Moines, $50,300; Wallace B. Questad, 2858 30th W., Seattle, $58,817; Norge Construction Co., 5008 Admiral Way, Seattle, $59,900.

Building will feature a 60'x60' main room, a 30'x30' room, kitchen, toilet facilities, balcony, storage area. Structure will be on piling.

Pumice block on grade beams spanning piling; built-up gable roof, glued laminated posts and beams; 2"x6" t&g decking; rigid insulation in roof; no windows; three 16' aluminum sliding doors; drywall partitions; some plywood finish on walls; hardwood, some vinyl asbestos flooring; butane gas heating; diamond-shaped fireplace, black iron shingle hood.

Parking area will be developed and surfaced with on-site materials. This work will not be under the above contract.

PD 12-12. Previous report 12-6

▲CHURCH ADDITION, ALTERATIONS (University Christian)— Seattle, Wash.

Seven bids received ranging from a low of $294,212 by E. F. Shuck Construction Co., 535 Pontius, Seattle, to a high of $327,779, were submitted to the University Christian Church, 15th N.E. and E. 50th, Seattle, for construction of a two-story addition and alterations. Plans by Naramore, Bain, Brady & Johnson, architects and engineers, 904 7th Ave., Seattle. Bid opening December 11.

LOW BASIC BIDS: W. G. Clark Co., 408 Aurora, Seattle, $299,549; Henrik Valle Co., Inc., 413 3rd W., Seattle, $301,002; Wallace B. Questad, Inc., 2858 30th W., Seattle, $303,432; Jentoft & Forbes, 927 W. 46th, Seattle, $308,094; Baugh Construction Co., 922 Poplar Place, Seattle, $325,740; J. C. Boespflug Construction Co., 1912 4th S., Seattle, $327,779.

Alterations include relocation of organ loft and dressing rooms, and new partitions of plaster, new flooring of vinyl asbestos, new lighting. Addition will be attached to south end of existing church. Wood frame apartment on site will be razed under another contract. New structure will include 154-person capacity chapel, a church parlor, library, church offices, brides room, rest rooms, youth recreation room, youth lounge, snack bar, hobby room.

Chapel will have glued laminated arches, exposed glued laminated beams and 3"x6" t&g decking, seamed copper roof; narthex and chapel will have colored plastic sky-

lights; brick veneer exterior; plaster partitions; vinyl asbestos, quarry tile, carpeting; connection with existing oil-fired heating, convectors; asphaltic concrete surfaced six-car parking facility under building.
AM 12-13. Previous report 12-9

●DOG POUND— Seattle, Wash.
(Estimated $130,000)

Bids will be opened 2 p.m., December 31, by Board of Public Works, E. G. Henry, secretary, 512 County City Bldg., Seattle, for construction of four one-story buildings to be used as a city animal shelter. Plans may be obtained from Wilkins & Ellison, architects, Marion Bldg., Seattle. $25 deposit.

Four buildings which will house administrative offices, laboratory, garage and kennels, plus outdoor pens, will be built near Interurban Ave. S. and S. 110th St. Concrete footings and foundation; cement block and gypsum board; concrete floors; glued laminated beams; composition shingle, gable roof; aluminum sash; rock wool insulation; interior wall finish of Zolatone and glass; plaster partitions; asphalt and vinyl tile flooring in administration building; acoustical, plaster ceiling; wood and aluminum doors; wood cabinets; euthanasia equipment; incinerator; radiant floor heating in kennels and warm air elsewhere. DM 12-13

■HEATING PLANT— Seattle, Wash.

Planholders announced for installation of new oil burners and related work at the U.S. Immigrant Station, 815 Airport Way, Seattle; Proj. No. SEA-1023. Bids will be opened 3 p.m., P.S.T., December 23, by General Services Administration, 909 1st Ave., Seattle.

Planholders: Boyker Plumbing and Heating, Inc., 2627 Eastlake; D & A Construction Co., 3008 E. 190th; Daly Plumbing and Heating Co., 8317 Aurora; Dual Service, Inc., 261 E. 45th; Rautman Plumbing and Heating Co., 115 Jackson; Rustad Heating and Plumbing Co., 211 Bell; Fraser's Boiler Service, Inc., 703 Dearborn; S. M. Gilbert Co., Inc., 7100 E. Marginal Way; Glacier Construction Co., 5536 Coniston Road; Hurley Engineering Co., Inc., 2124 5th; L. G. Massart Plumbing and Heating Co., 4501 9th N.W.; Navarre Plumbing and Heating Co., Inc., 3839 Stone Way; Superior Burner Service, 15th and E. Madison; Percy A. Thorn, 24 Etruria; University Plumbing and Heating Co., 3941 University Way; West Coast Heating and Plumbing Co., Inc., 4125 9th N.W.; Red-E Construction Co., 6056 37th N.E. All of Seattle.
PD 12-17. Previous report 12-9

JUNIOR HIGH SCHOOL (23rd and Jackson)— Seattle, Wash.
(Estimated cost $2,225,000 to $250,000,000)

Plans announced by Seattle School District No. 1, 815 4th Ave. N., Seattle, for an 1,800-student junior high school to be built on an 18-acre tract near 23rd S. and Jackson, Seattle. Site purchasing is not yet completed, nor has an architect been retained. Matching federal funds will be available to help finance the work, as part of the national program to help cities in cleaning up blight areas.
PD 12-17

■SCHOOL (South Angle Lake)— Seattle, Wash.
(Estimated cost $449,313)

Additional planholders announced for construction of the 16-classroom, 34,400 sq. ft., two-building South Angle Elementary School. Bids will be opened 8 p.m., January 8, by Highline School District No. 401, Carl Jensen, superintendent, 253 S. 152nd, Seattle. Plans and specifications with Bassetti & Morse, architects, Tower Bldg., Seattle.

Additional planholders—GENERAL: Glacier Construction Co., 5536 Coniston Road, Seattle; John P. Hopkins Co., Inc., 4146 Boulevard Place S.E., Mercer Island; Clair E. Prescott, 3516 Airport Way; Northern State Construction Co., 2833 26th W., Seattle. MECHANICAL: A. H. Merchant Plumbing and Heating Co., 1633 12th, Seattle; George Lucken Plumbing and Heating, Inc., 922 Leary Way, Seattle; Ashwell-Twist, 967 Thomas, Seattle; Kaelin Plumbing and Heating, 2111 Center St., Tacoma. ELECTRICAL: B & B Electrical Contractors, 6715 Empire Way, Seattle; Hooper Electric Co., 215 Marion St., Seattle; Watts Electric, Inc., 15411 Military Road, Seattle.

Roof will be a series of gables of prefabricated wood roof panels mounted on glued laminated beams, or on exterior walls; glued laminated columns; rigid insulation in roof; pumice block exterior walls; wood siding; aluminum sash; drywall partitions, pumice block partitions; asphalt tile, quarry tile (kitchen), ceramic tile (restrooms) flooring; plastic skylight; incandescent lighting; oil-fired hot water heating, unit heaters; gravel surfaced driveways and parking areas. Grading for a playfield is included in the contract. Kitchen equipment will be under a separate contract.
PD 12-17. Previous report 12-11

SWIMMING POOL (View Ridge)— Seattle, Wash.

Plans announced by View Ridge Swimming Club, Inc., Seattle, for a community swimming pool project, which will include a swimming pool, dressing rooms, lounging area, in View Ridge area, Seattle. Pool will conform to amateur athletic union rules. Preliminary sketches were prepared by Detlie & Peck, architects, Securities Bldg., Seattle. Financial arrangements will be made before preliminary drawings are started.
PD 12-17

▲ENGINEERING BUILDING (U. of W.)— Seattle, Wash.

Bids received by University of Washington Board of Regents, Seattle, for construction of a general engineering building near Frosh Pond, north of Guggenheim Hall on the campus. Plans by Harmon, Pray & Detrich, architects, 2000 Fifth Avenue Bldg., Seattle.

Eleven bids received at December 16 bid opening. Apparent low bids—GENERAL: Wick Construction Co., 720 N. 35th, Seattle, $769,500; John H. Sellen Construction Co., 228 9th N., Seattle, $780,000; George E. Teufel Co., White-Henry-Stuart Bldg., Seattle, $781,492.

MECHANICAL: Six bids received—Apparent low—Lucken Plumbing and Heating Co., 922 Leary Way, Seattle, $138,750; University Plumbing and Heating, 3941 University Way, Seattle, $139,800; L. E. Ballou Plumbing and Heating Co., Inc., 5803 14th N.W., Seattle, $142,173.

ELECTRICAL—Ten bids received. Apparent low—Van S. McKenny, 104 Wall, Seattle, $74,095; Selo Electric Co., Inc., 1050 N. 38th, Seattle, $77,380; Fishback & Moore, Inc., 3201 Fremont, Seattle, $85,376.

Alternates may change order of bids.

Steel and concrete; 64'x222'; four-story; flat built-up roof, some copper roofing around perimeter; rigid insulation in roof; cast stone and brick exterior; steel sash; partitions of solid concrete, concrete block, plaster on steel studs; concrete floors; aluminum entry doors in steel frames; connection to existing steam heating system. Alternate bids will be requested for resilient tile flooring and an automatic elevator.
PD 12-17. Previous report 12-10

▲ADMINISTRATION BUILDING— (U. of W.)— Seattle, Wash.

Bids received by University of Washington Board of Regents, Seattle, for construction of the first unit of a business administration building. Plans by Decker, Christenson & Kitchin, architects, 1411 Fourth Avenue Bldg., Seattle.

Twelve general, five mechanical, and seven electrical bids received at December 16 opening. Alternates may change order of bids.

APPARENT LOW BIDS—GENERAL: Wick Construction, 720 N. 35th, Seattle, $515,800; George E. Teufel Construction Co., White-Henry-Stuart Bldg., Seattle, $526,358; Jentoft & Forbes, 927 W. 46th, Seattle, $529,544. MECHANICAL: Lucken Plumbing & Heating, 922 Leary Way, Seattle, $86,606; Navarre Plumbing & Heating, 3839 Stone Way, Seattle, $88,355; University Plumbing & Heating Co., 3941 University Way, Seattle, $93,400. ELECTRICAL: Northwest Electric Co., 420 Yale N., Seattle; $44,270; Holert Electric, Inc., 2300 W. Spokane, Seattle, $45,452; Agutter Electric Co., 5500 14th N.W., Seattle, $47,650.

Structure will be located in the northeast section of campus between Denny Hall, Hutchinson Hall and the Art Building.

Three-story, reinforced concrete, brick and exposed aggregate concrete panels. A large open court will be located in the center of the square structure. Part of building will be on stilts, and a set-back first floor will provide a colonnade around the building. First floor to contain administrative offices and departmental offices, the second and third floors to be faculty offices. Construction is planned for future addition of a connecting classroom unit.
PD 12-17. Previous report 12-10

★CHURCH (Queen Anne Lutheran)— Seattle, Wash.

Award to Herbert U. Taylor, 11239 Arroyo Beach Place S.W., Seattle, $186,424, by Queen Anne Lutheran Church, for construction of a two-story and basement, 10,000 sq. ft. church, including nave, chancel, administrative area, two classrooms and a fellowship hall, at 8th Ave. W. and W. McGraw, Seattle. Plans by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.

Wood frame; glued laminated arches, t&g decking, rigid insulation in roof; roof and ceiling joists, batt type insulation in roof of Sunday school wing; concrete slab-on-grade, concrete slab over steel bar joists; metal sash; brick veneer, board and batt exterior; drywall partitions; metal toilet partitions; asphalt tile, vinyl asbestos flooring, carpeting; gas-fired hot air heating; rubber treads on wood stairways; some concrete stairways.
PD 12-17. Previous report 11-19

SHOPPING CENTER EXPANSION (University Village)— Seattle, Wash.
(Estimated cost $1,000,000)

Plans announced by University Village, Inc., Don Ellis, president, c/o Continental Inc., 810 2nd Ave., Seattle, for an expansion program in the University Village shopping center, which may include addition of buildings to the north of present Rhodes store, and additional parking facilities for several hundred cars. Expansion will take two to three years to complete. No architect has been retained.
PD 12-17

★STACK HOOD (GSA)— Seattle, Wash.

Award to Seattle Boiler Works, 5237 E. Marginal Way, Seattle, $740, by General Services Administration, 909 1st Ave., Seattle, for replacement of the top 5' section of the existing stack and replacement of existing stack hood at the Federal Office Bldg., Seattle; Proj. No. SEA-1240.
AM 12-17. Previous report 12-

CHURCH— Snohomish, Wash.

Funds in the amount of $23,000 have been subscribed for completion of the Free Methodist Church and construction of new parsonage at 6th Ave. and C St., Snohomish. Church officials estimate a total of $40,000 will be needed for the building program.
HH 12-4

JUNIOR HIGH SCHOOL—Snohomish, Wash.
(Estimated cost $600,000)

Working drawings are nearing completion by Klontz & Wrede, architects, Dexter Horton Bldg., Seattle, on the 15-classroom junior high school in Snohomish, for Snohomish School District No. 201, Snohomish.
PD 12-17. Previous report 11-14

●SCHOOL (Sacajawea Junior High)— Spokane, Wash.

Bids will be received until 4:30 p.m., January 7, by J. K. Stallcop, secretary of Spokane School District No. 81, 303 4th Ave., Spokane, and will be opened at 7:30 p.m., at the Shadle Park High School auditorium, N. 4327 Ash St., Spokane, for construction of Sacajawea Junior High School on a 12½-acre site at 33rd Ave. and Lamonte St. Plans obtainable from Whitehouse, Price, DeNeff & Deeble, architect, 715 Hutton Bldg., Spokane. $50 deposit. Certified check, cashier's check or bid bond 5%. Separate bids on general, mechanical and electrical.

Mechanical engineer is Everett L. Rice, Hutton Bldg., Spokane; electrical engineer, Joseph M. Doyle, Realty Bldg., Spokane.

One-story; 115,000 sq. ft. Cafeteria and shop at one end of building, gymnasium

and music area at other end; three-classroom wings in center. Masonry, 12" walls with glued laminated beams and decking in gymnasium; frame with brick veneer, glued laminated beams and wood decking in other portions; wood roof framing with a one-hour fire rating; asphalt, ceramic, mosaic and quarry tile flooring; glazed wall tile; acoustical tile and gypsum wallboard; gas-fired forced hot air heating system with oil standby. Alternate bid on prefabricated cooler and freezer units. DC 12-16

ELEMENTARY SCHOOL (Bonney Lake)— Sumner, Wash.

Preliminary drawings are underway by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, for a 10-classroom, one-story elementary school at Bonney Lake, near Sumner, for Sumner School District No. 320, C. E. Willard, superintendent, 1625 Main St., Sumner. Construction will provide for future expansion. PD 12-16

ELEMENTARY SCHOOL (Andrew Christensen)— Tacoma, Wash.

Bids will be called in January, following state approval of plans, by Franklin Pierce School District No. 402, Morris E. Ford, superintendent, 11002 Portland Ave., Tacoma, for construction of the 14-classroom, 30,000 sq. ft., one-story, campus plan Andrew Christensen Elementary School on 102nd and Barnes Lane, between Parkland and Tacoma. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma.

Five buildings; class C fireproof construction; flat built-up roof; batt insulation in roof; concrete, brick, hollow masonry walls; steel sash (basic), aluminum sash (alternate); drywall, wood stud partitions; asphalt tile flooring on concrete floors; acoustical tile ceilings; incandescent lighting; glass block, corrugated plastic skylights; plastic light strips; hollow metal exterior doors; oil-fired hot water heating system; covered walkways with t&g roofs. PD 12-16

CLINIC, OFFICE BUILDING— Tacoma, Wash.

Bids will be called early in January by Wright Park Properties, owners, for construction of a two-story, 4,500 sq. ft., no basement clinic and office building at S. 3rd St. and I St., Tacoma. Working drawings are near completion by Marshall W. Perrow, architect, 634 S. Trafton, Tacoma.

Flat built-up roof; masonry exterior; drywall partitions; vinyl asbestos flooring; fluorescent lighting; oil-fired hot water heating system. Parking site for 16 cars will be included in the contract. PD 12-16

BUILDING ADDITION (Medical)— Tacoma, Wash.

Bids from a select list of bidders will be called early in January, by Puget Sound Properties, Inc., owners, for a 5,675 sq. ft. (approximately) second story addition to the Puget Sound Medical Building, S. 4th and K St., Tacoma. Working drawings are near completion by Johnston & Parker, architects, 1111 Washington Bldg., Tacoma.

Reinforced concrete; metal lath and stucco exterior; flat built-up roof; blanket insulation in roof; aluminum sash; drywall partitions; sound deadening in partitions; asphalt tile flooring; plastic skylights. Existing hydraulic elevator will be extended to serve additional floor. Heating system is not yet decided. PD 12-16

HOSPITAL ADDITION (Tacoma General)— Tacoma, Wash.

(Estimated cost $2,000,000)

Preliminary plans have been completed by Lea, Pearson & Richards, A.I.A., architects, 240 S. Stadium Way, Tacoma, for an addition of two wings to Tacoma General Hospital, 315 S. K St.

One wing will house eight surgeries, recovery room, a three-room emergency suite, waiting room, nurses' station, three-bed observation room and other emergency facilities. Improvements will be made in the radiological department, dining room, records room, pharmacy and present recovery rooms.

The second wing will provide additional beds, laboratories and physical therapy quarters. KC 12-12

APARTMENT (Belmont Terrace)— Tacoma, Wash.

(Estimated cost $600,000)

Construction is scheduled to begin in February by Jardeen Brothers, building contractors, 1240 S. Sprague, Tacoma, on the 10-story, 55,000 sq. ft. Belmont Terrace apartment at Tacoma Ave., Division and Broadway, Tacoma, for Home Apartments, Inc., owners. Office rental space will occupy 4,500 sq. ft. of the first floor.

Fireproof construction; steel stud; flat built-up roof; rigid insulation in roof; stucco exterior; aluminum sash; plaster partitions; resilient tile flooring; wood cabinets; laminated plastic counter tops; electric baseboard heating. Covered parking for 35 cars in two levels under building, will have cement concrete floors.

PD 12-16. Previous report 11-4

LIBRARY WING ADDITION (Annie Wright)— Tacoma, Wash.

Working drawings are underway by John H. Sutton, architect, Rust Bldg., Tacoma, for a library wing addition to Annie Wright Seminary, 827 N. Tacoma, Tacoma. A contractor has been selected for the work.

PD 12-16

ART CENTER— Tacoma, Wash.

Working drawings are underway by Lytle & Jones, architects, 1716 Pacific Ave., Tacoma, for renovation of Tacoma City Jail (Public Safety Bldg.) into the Fine Arts Center Bldg., for City of Tacoma. Plans include an art museum, concert auditorium, offices for cultural organizations. The reinforced concrete, five-story building will be re-faced by the addition of a steel screen from the second floor up, with the first floor faced by a solid material. Renovation will include partition work, new lighting, new flooring. PD 12-16. Previous report 8-8

SENIOR HIGH SCHOOL— Tacoma, Wash.

Preliminary drawings are underway by Robert Billsbrough Price, architect, 2907 A St., Tacoma, for the South Tacoma Senior High School, to be located near S. Tacoma Way and S. 66th St., Tacoma, for Tacoma School District No. 10, S. 9th and Tacoma Ave., Tacoma. PD 12-16. Previous report 5-8

WAREHOUSE, OFFICE BUILDING— Tacoma, Wash.

Preliminary drawings are underway by Marshall W. Perrow, architect, 634 S. Trafton, Tacoma, for a 27,570 sq. ft. warehouse and office building for Home Service Co., owners. Structure will be on the site of the burned-out Tacoma Laundry, Tacoma Ave. and J St., Tacoma, and will incorporate 5,000 sq. ft. of laundry building which was not destroyed by the fire.

Masonry walls; mill construction roof; concrete slab-on-grade; uni-strut movable partitions; oil heating system. PD 12-16

BANK (Puget Sound National)— Tacoma, Wash.

Construction will start soon by Merritt Construction Co., Fife, on the Puget Sound National Bank in Fife. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma. PD 12-16

HOSPITAL EXPANSION (Mary Bridge Children's)— Tacoma, Wash.

(Estimated cost $650,000)

Bids will be called in April by Mary Bridge Children's Hospital, 311 S. L St., Tacoma, for addition of a 12,750 sq. ft. third floor, a three-story wing, and remodeling of existing hospital. Plans by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma.

Third floor addition involves completion of existing shell, including plaster partitions with metal stud; terrazzo flooring, connection to existing hot water steam system, convectors.

Wing addition will include hospital laboratory, out-patient rooms, dental units, dental surgery on first floor; children's playroom, occupational therapy, two-bed ward in second floor; staff meeting room and two-bed ward on third floor. Concrete frame; flat built-up roof; rigid insulation in roof; aluminum sash; plaster partitions; metal stud; resilient tile flooring; some imitation terrazzo tile flooring; also terrazzo flooring.

Remodeling will involve addition of X-ray room and enlargement of kitchen and dining room facilities on first floor of hospital; air conditioning surgery wing; preparing third floor for future addition of air conditioning. PD 12-16. Previous report 12-12

ORTHOPEDIC CLINIC— Tacoma, Wash.

Bids from a select list of bidders will be called before January 1 by Orthopedic Surgeons, Inc., Tacoma, for construction of a 3,434 sq. ft. (first floor) 1,200 sq. ft. (basement) orthopedic clinic at S. 3rd and J St., Tacoma. Plans by Robert Billsbrough Price, architect, 2907 A St., Tacoma.

One-story and basement; wood frame; flat built-up roof; batt insulation in joists; plaster exterior walls; aluminum sash; horizontal sliding windows; plaster partitions; vinyl tile flooring; extensive mill work; electric heating by air-to-air heat pump; 20-car asphalt paving (bituminous) parking area. Structure will be built for future addition of second floor, and a therapeutic area. PD 12-16

LIBRARY— Tacoma, Wash.

Bids will be called following approval of plans by City Building Department, Tacoma, for construction of a one-story (100'x63') and basement (27'x19') library for the South Tacoma Branch, S. 56th and Puget Sound streets, Tacoma. Plans by E. L. Mills & Associates, architects, 308 S. Tacoma, Tacoma. Mechanical engineer, Whitson & Mill & Associates; electrical engineer, Howard Schroedel, 2903 S. 40th St., Tacoma.

Brick veneer with fir trim, SCR masonry exterior; concrete footings and foundation; 5,900 sq. ft.; flat roof, glued laminated beams; drywall partitions; concrete stairways; aluminum window sash; batt insulation in roof; fluorescent lighting; asphalt tile flooring; acoustical ceilings; wood doors and cabinets; gas-fired heating system.

PD 12-16. Previous report 12-11

RESTAURANT ADDITION (Johnny's Dock)— Tacoma, Wash.

Construction will be started January 15 by Construction Engineers and Contractors, 801 Port of Tacoma Road, Tacoma, on a two-story addition to Johnny's Dock Restaurant, Pier 3, Tacoma. Plans by Marshall W. Perrow, architect, 634 S. Trafton, Tacoma, include extensive glass areas; a new dining room; new bar; enlarged kitchen; additional rest room facilities; new entrance; new flooring; remodeling hot-air heating, air-conditioning and cooling system. PD 12-16

LIBRARY (Swayze)— Tacoma, Wash.

Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, have been retained to prepare plans for the George Swayze Library on 6th Ave. in the west end of Tacoma, for City Council, City Hall, Tacoma. PD 12-16

CHURCH UNIT (Mason Methodist)— Tacoma, Wash.

(Estimated cost $300,000)

Bids will be called the first part of January by Mason Methodist Church, J. Henry Ernst, pastor, 2724 N. Madison St., Tacoma, for construction of a 600-person capacity, 2-level sanctuary, the first unit of a proposed campus plan church plant, to be located on the block bounded by N. 27th, N. 28th, Madison and Monroe streets in Tacoma. Working drawings are near completion by Durham, Anderson & Freed, architects, 1100 Denny Way, Seattle.

The entire block, bounded by the above streets, has been acquired by the church for the project; existing church will be used for other purposes when the sanctuary has been completed. Parking facilities will be incorporated into the final design. The sanctuary will seat about 200 in the balcony and 80 in the choir loft.

Structural steel frame with attached concrete panels, surfaced with quartz aggregate, some Wilkeson stone; steel bar joists, concrete slab floor; 28,360 sq. ft. (16,560 sq. ft. main floor, 11,800 sq. ft. lower floor); metal sash; plaster partitions; asphalt tile, vinyl

asbestos, slate flooring; gas-fired boiler with ventilating system.
PD 12-17. Previous report 11-20

BANK EXPANSION (Pacific First Federal)— Tacoma, Wash.

Preliminary plans are underway by Lea, Pearson & Richards, architects, 240 S. Stadium Way, Tacoma, for the proposed expansion of Pacific First Federal Bank, 11th and Pacific, Tacoma. Project will involve approximately doubling size of existing bank, by including adjacent building.
PD 12-17

● PLUMBING— Walla Walla, Wash.

Bids will be opened 3 p.m., P.S.T., December 30, by General Services Administration, 116 Federal Office Bldg., 909 1st Ave., Seattle, for installation of new plumbing fixtures in the carriers' toilets and for interior and exterior painting at U.S. Post Office and Courthouse, Walla Walla; SEA-1109. Plans with Seattle office. Bid guarantee 2%. Completion time 60 calendar days.
DM 12-16

● LODGE (Eagles)— Walla Walla, Wash.

Bids will be opened 7:30 p.m., January 5, by Fraternal Order of Eagles, Aerie No. 26, 7 E. Alder St., Walla Walla, for construction of a lodge building and bowling alley in Walla Walla. Plans with Thomas O. Williams & Associates, architect, 20 S.E. 3rd, College. $50 deposit. Separate bids on general, mechanical and electrical or combination bid on any two or all three. Certified check, cashier's check 5%.

Mechanical and electrical engineer is H. Jack Reeves, Symons Bldg., Spokane.

Building will be 260' x 120' with lodge facilities occupying a portion of the space and a 16-lane bowling alley the remainder. Poured concrete slab; concrete block walls; some prefinished panels and brick on front. The alley section will have steel frame roof with long span trusses and a wood deck.
DM 12-17. Previous report 11-8

▲ BUS DUCTS (Avionic Shops, Miramar Hangar)— Whidbey Island, Wash.

Five proposals ranging from a low of $12,999, by Fellstrom Electric Co., 2211 9th Ave., Seattle, to a high of $24,936, were submitted to the Public Works Department, U. S. Naval Air Station, Bldg. 91, Whidbey Island, for bus ducts in avionic shops, Miramar Hangar, Whidbey Island, NBY-18415. Bids were opened December 11.

Other bids: Industrial Electric Co., 2701 Hewitt, Everett, $15,997; Electric Associates, Inc., 2911 S. Chandler, Tacoma, $18,730; C. B. Campbell Co., 436 21st S., Seattle, $20,540; Whidbey Electric Co., Highway 1 D, Oak Harbor, $24,936.
AM 12-16. Previous report 12-4

★ COTTAGES— Woodburn, Ore.

Bids were opened December 16 and contract was awarded by Oregon Board of Control, William C. Ryan, secretary, Room 124, Capitol Bldg., Salem, for construction of four, one-story, brick dormitory cottages at MacLaren School for Boys in Woodburn. Plans were prepared by Donald W. Edmundson and Neil R. Kochendoerfer, architects, and Evan Kennedy, engineer, 325 Henry Bldg., Portland.

AWARD: George A. Moore & Associates, Inc., 923 S.W. 17th Ave., Portland, $493,264 (basic bid of $498,164 minus Alt. No. 1 for $3,550 to eliminate asphalt paving, and Alt. No. 3 for $1,350 to eliminate garbage disposal units).

2ND LOW: C. M. Corkum Co., Inc., 2630 S.W. 3rd Ave., Portland, $498,780. 3RD LOW: George W. Irwin Construction Co., 654 S. Elm St., Canby, $499,875.

Each cottage will house 25 boys and contain 5,670 sq. ft., including central control area, activity room, television room, quiet room, office area, toilet and shower room, janitor's closet, employee's toilet, clothes and linen storage, dining room and kitchen. Concrete slab floor; brick cavity walls; glued laminated joists with 3" deck; and built-up graveled roof; steel sash; hollow metal exterior doors and frames; metal studs with gypsum lath and plaster interior partitions; birch chipboard wainscoting except on exposed brick walls; solid core interior doors with hollow metal frames; stainless steel work and dishwasher in kitchen; ¼" tempered plate glass windows; hot water heating; incandescent lighting.
DM 12-17. Previous report 11-21

HOTEL REPAIR— Yakima, Wash.
(Estimated cost $10,000)

Construction will start immediately on the Chieftain Hotel, 17 S. 2nd St., Yakima, for Stephen Burke, owner, 17 S. 2nd St., Yakima, to repair damage caused by fire. Work will consist of new ducts, new plaster and paint to damaged areas, and a new floor in stadium. General contractor: Smoot Brothers, 215 S. 26th Ave., Yakima.
IG 12-16

SCHOOL BUILDINGS (Maintenance, Portable Classrooms)— Yakima, Wash.

Preliminary plans are underway by the School District No. 7, 104 N. 4th Ave., Yakima, on a maintenance building adjacent to the Administration Bldg., 104 N. 4th Ave., and on three or four one-room portable classrooms for Hoover Elementary School, 400 W. Viola, and Garfield Elementary School, N. 6th and Fairbanks St., Yakima. Construction of both projects will be by the maintenance crews of the School District No. 7.

These projects are included in the $2,500,000 bond issue which will be voted upon in February or March to finance a school building program in the Yakima area.
IG 12-9

ELEMENTARY SCHOOL ADDITION— Yakima, Wash

Preliminary plans are underway by Gochnour & Marble, A.I.A., architects, Miller Bldg., Yakima, for School District No. 7, Administration Bldg., 104 N. 4th Ave., Yakima, on a six-classroom addition to the W. W. Robertson Elementary School, Lincoln Ave., Yakima.

This project is included in the $2,500,000 bond issue which will be voted upon in February or March to finance a school building program in the Yakima area.
IG 12-9

RESIDENCE (Whiteside)— Yakima, Wash.
(Estimated cost $16,000)

Construction has started on a five-room, daylight basement residence, for James L. Whiteside, owner, 608 Pickens Road, Yakima. Building site located at 612 Pickens Road, Yakima. Plans by Doudna, Williams & Phipps, architect, Miller Bldg., Yakima. General contractor: LeRoy Morrow, 421 S. 50th Ave., Yakima.

Exterior walls of vertical cedar siding; built-up roof; resilient flooring; aluminum, wood sash windows; drywall, plaster partitions with paint finish and wood trim; drywall, plaster ceilings, fireplace; oil-fired forced warm-air heating system.
IG 12-12

RESIDENCE (Vanderwood)— Yakima, Wash.
(Estimated cost $19,000)

Construction will start immediately by J. L. Vanderwood, owner-contractor, 210 S. Minnesota Ave., Yakima, on a three-bedroom residence, with attached garage. Building site 410 N. 52nd Ave., Yakima.

Exterior, brick; roofing, composition shingles; aluminum sash windows; vinyl tile flooring, carpeting; painted plaster partitions; painted plaster ceilings; oil-fired forced warm-air heating system.
IG 12-12

IDAHO

● HOSPITAL— Arco, Idaho
(Estimated cost $180,000)

Bids will be opened for the second time on January 8 by Butte County Commissioners, Courthouse, Arco, for construction of a 10-bed hospital for the Lost River Valley Hospital Associate, Inc., Arco. Plans with C. A. Sundberg & Associates, architect, 111 E. 15th, Idaho Falls.

Bids were opened in June and rejected as too high. The low bidder at that time was Goodwin Builders, 1250 Ada Ave., Idaho Falls, $213,000. Plans were revised for the new bid call.
DC 12-16. Previous report 10-29

★ TELEPHONE BUILDING— Bonners Ferry, Idaho

Construction has started on a central office building and garage for the General Telephone Co., Bonners Ferry. E. R. Haynes Construction Co., W. 2028 Sinto, Spokane, Wash., has been awarded the contract for the building which is slated to be completed late in February. Plans call for precast concrete panels to aid winter construction.

Scheduled by June 1, is installation of equipment, including a standby generator.
MH 12-12. Previous report 11-22

● HOSPITAL— Burley, Idaho
(Estimated cost $900,000)

Bids will be opened 2 p.m., January 9, by Cassia County Commissioners, Courthouse, Burley, for a one-story, 50-bed, fireproof hospital structure to be constructed on the northwest corner of a 15½-acre site in Burley. Plans by C. A. Sundberg & Associates, architects, 111 E. 16th St., Idaho Falls. $50 deposit.
GH 12-17. Previous report 12-10

MILL (Rebuilding)— Council, Idaho

Boise Cascade Corp., 114 S. 10th, Boise, plans to rebuild the Boise Cascade Mill in Council which was destroyed by fire last August. Construction will start in March.
GH 12-17

★ INCINERATOR— Eastport, Idaho

Award to Blanco Sheet Metal Co., Bonners Ferry, $1,365, by General Services Administration, 909 1st Ave., Seattle, Wash., for installation of an incinerator in the existing boiler room of the U.S. Border Station at Eastport, Idaho; SEA-1183. Plans include an incinerator, oil burner, burner controls, draft governor, doors, breeching, oil piping. Four bids received at December 5 bid opening.
PD 12-17. Previous report 11-21

HIGH SCHOOL— Kendrick, Idaho
(Estimated cost $330,000)

A bond election will be held in the spring by Kendrick Joint Class B School Dist[illegible] No. 283, to finance construction of a [illegible]crete high school building. Plans by D[illegible]ping, Kelley & Finch, A.I.A., architects, [illegible] Kootenai, Boise.
AM 12-12. Previous report [illegible]

JUNIOR-SENIOR HIGH SCHOOL— Rathdrum, Idaho

Voters rejected a $484,000 bond issue December 3 for the sixth time, to finance construction of a 12-classroom Junior-Senior High School in Rathdrum, for Lakeland Class A School District No. 272, Rathdrum.
MH 12-12

SCHOOLS— Rigby, Idaho

A bond issue for $400,000 to finance construction of a new elementary school at Rigby and additional classrooms at Terreton and Ririe was defeated for the third time. The election was held by Jefferson School District 25-A, Rigby. Architects are Fetzer & Fetzer, 413 Zions Savings Bank, Salt Lake City, Utah.
GH 12-13. Previous report 11-19

CONVALESCENT CENTER (Addition)— Shoshone, Idaho

Preliminary plans have been completed by C. A. Sundberg & Associates, architects, 111 E. 16th St., Idaho Falls, for the Lincoln County Board of Commissioners, Shoshone, on a 16-bed addition to the Wood River Convalescent Center, Shoshone.
GH 12-17

MONTANA

GYMNASIUM— Absarokee, Mont.

All bids were rejected for construction of an addition to high school gymnasium in Absarokee, by Absarokee High School District, Stillwater County, Absarokee. The specifications were not clear enough to bidders and bids exceeded amount available for project.
AM 12-13. Previous report 12-5

★ BUILDING RAZING— Billings, Mont.

Award to Studer Construction Co., west of Billings, $14,000, by Yellowstone County

Commissioners, Courthouse, Billings, for razing the old courthouse building. The four-story stone courthouse is separated from a new eight-story courthouse by only one foot. Bids were opened December 10.

Other bidders were: Frates Const. Co., 424 Rimrock Rd., Billings, $17,200; Clark Const. Co., 931 Princeton Ave., Billings, $24,440; Walter J. Hoven, 1016 Vaughn Lane, Billings, $24,638; F. L. Flynn & Co., 520 Ave. D, Billings, $26,500, and Cop Const. Co., 617 Central Ave., Billings, $31,810.

EE 12-17. Previous report 11-22

OFFICE BUILDING (Stapleton)— Billings, Mont.

(Estimated cost $100,000)

Bids will be called in January by T. A. Riese, president, Atlas Corporation, for remodeling the Stapleton Building (offices and shops), 1st Ave. N. and Broadway, Billings. Plans by Evans & Lamont, architects, Electric Bldg., Billings.

Work will include white marble finish to the second floor of the four-story building; removal of present cornices and projections; painting upper floors; installing new tinted sidewalk and planting trees along two sides of building; pearl gray awnings for each window; remodeling and redesigning of ground floor to permit access from one store to another without leaving building.

EE 12-17

★BOILER— Bozeman, Mont.

Award to Budd Plumbing & Heating Co., 317 E. Mendenhall, Bozeman, $82,000 (Alt. 1), $80,000 (Alt. 2), by State Board of Examiners, State Capitol Bldg., Helena, for installation of a boiler and piping at the Montana State College in Bozeman. Bids were opened for the second time November 11. Plans by G. L. Bryant, executive clerk, and state engineer, State Capitol Bldg., Helena. This is in addition to work already underway.

OTHER BIDS: Christensen Plumbing & Heating Co., Box 1625, Billings, $102,450, $94,650; Midland Plumbing & Heating Co., 2121 4th Ave. N., Billings, $103,318, $95,870; Riber Plumbing & Heating Co., 805 N. Main St., Helena, $107,740, $91,990; James Smyth, 216 Division St., Spokane, Wash., $113,104, $46,310.

Project covers installation of a new boiler, piping, valves, to accommodate a switchover from coal-fired heating system to gas-fired.

LS 12-16. Previous report 11-11

★MEDICAL RESEARCH BUILDING— Bozeman, Mont.

Awards announced by State Board of Education, Capitol Bldg., Helena, for construction of a 50'x142', two-story and partial basement, medical research building on the campus of Montana State College, Bozeman. Plans by Sigvald L. Berg, architect, 711 Monroe, Helena.

AWARDS — GENERAL: Otto Eickhof & Son, Crookston, Minn., $173,495, ($192,995 basic, less alternates $19,500). MECHANICAL: Frank Trunk & Sons, 223 E. Main St., Bozeman, $58,510, ($70,256 basic, less alternates $11,746). ELECTRICAL: Palmquist Electric Co., 420 Main St., Helena, $31,254, ($31,404 basic, less alternates $1,500). The electrical contract is conditionally awarded pending availability of funds.

Reinforced concrete, brick and pumice block frame; built-up, concrete slab roof, pumice insulation; concrete partitions; aluminum windows; aluminum and plate glass exterior doors; concrete stairways, aluminum handrails; fluorescent lighting; little interior woodwork, but many built-in wood laboratory cabinets, blackboards, etc.

LS 12-13. Previous report 12-9

● STAIRS, ROOFING (GSA)— Bozeman, Mont.

Bids will be opened 3 p.m., P.S.T., December 30, by General Services Administration, Room 166, 909 1st Ave., Seattle, Wash., for installation of new entrance stairs and repair of roofing, roof flashing and drains on the U.S. Post Office, S. Tracey and E. Babcock, Bozeman, Mont.; SEA-1107. Plans with Seattle office. Bid guarantee 2%. Completion time 140 calendar days.

Concrete and steel stairs; black iron pipe railing; plastic flashing; roof drains; repairs on mineral surface flat roof. DM 12-13

BUILDING MODIFICATIONS (Army Engineers)— Glasgow AFB, Mont.

Bids will be called soon for opening in mid-January by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, Wash., for supplementary modifications to two masonry buildings, generator room addition, miscellaneous alterations at Glasgow Air Force Base, Valley County, Mont.; ENG-45-164-59-14. Plans with Walla Walla office. Bid bond 20%. Completion time 180 calendar days.

Work involves 1—alterations to two existing concrete masonry buildings, including metal doors and frames, motorized louvers, oil-fired forced warm air space heaters, conversion of existing engine-generators to automatic start, electric unit heaters, guard posts, other items, 2—addition to generator room at existing masonry Readiness Crew Bldg., including installation of engine-generator set, fueling lines, guard posts, motorized louver, other items, 1—furnish and install two hollow-metal doors, modify exterior door hardware on 27 buildings, 4—modify controls in existing forced, hot water, heating systems in six buildings, 5—furnish and install pneumatic electric switches in controls of existing forced, hot water, heating system in three buildings, 6—add low limit thermostats to existing forced, hot water, heating system in three buildings, 7—relocate one existing thermostat and add anti-freeze thermostat, 8—add steam smothering lines in existing range hoods in two buildings, 9—add ventilating fan and duct in existing valve room. DM 12-16

● FAMILY HOUSING (Capehart)— Glasgow AFB, Mont.

Bids will be opened 2 p.m., C.S.T., January 14, by procurement officer, 53rd Fighter Group (Air Defense) at Sioux City Air Base, Iowa, for construction of 460 units of armed services family housing (Capehart Title 8) at Glasgow Air Force Base, Mont.; IFB 13-606-59-32. Plans with Sioux City office. $100 deposit on plans by certified or cashier's check. Bid bond $25,000. Plans were prepared by Cushing, Servis, Van Doren & Hazard, architects, 2910 Topeka Blvd., Topeka, Kan. DM 12-12. Previous report 12-5

▲COMMISSARY BUILDING VESTIBULES— Malmstrom AFB, Mont.

Only one bid received by procurement office, Malmstrom Air Force Base for construction of vestibules at the commissary building. Bid: C. E. Mitchell Sons, 308 4th S., Great Falls, $7,322. Government estimate $12,000. KC 12-12

● CHURCH (First Presbyterian)— Missoula, Mont.

(Estimated cost $176,000)

Bid opening has been extended to 8 p.m., January 9, on construction of a one-story, 6,100 sq. ft. Christian education addition to the First Presbyterian Church at 201 S. 5th W., Missoula. Bids will be opened in the church. Plans with Eddy, Carlson & James, architects, 1205 N. Washington, Spokane, Wash. Bids were to have been opened December 19.

Planholders: Hefte Construction Co., E. 11607 Trent Ave., Spokane; Sceva Construction Co., N. 2829 Madelia, Spokane; Walter Varnum, Box 983, Coeur d'Alene, Idaho; Gyrion Construction Co., Box 72, Kalispell; Pew Construction Co., Box 1222, Missoula; Gordon Construction Co., Box 319, Missoula; Hightower & Lubrecht Co., 734 S. 1st W., Missoula; Pulley & Leslie Co., 1719 River Road, Missoula; Bolton & Tanner Co., Box 1038, Missoula.

Concrete slab-on-grade; gas-fired, hot water radiant heat in slab on the main floor; brick masonry walls; frame partitions; plywood and drywall finish; acoustical ceiling; aluminum sash; aluminum foil insulation; vinyl asbestos tile.

DM 12-17. Previous report 12-2

ALASKA

● POST OFFICE, COURTHOUSE (Repairs)— Anchorage, Alaska

Bids will be opened 3 p.m., P.S.T., December 30, by General Services Administration, design and construction division, 909 1st Ave., Seattle, Wash., for miscellaneous repairs and replacements at the U.S. Post Office and Courthouse, 3rd and 4th streets, Anchorage, Alaska; Proj. No. SEA-1296. Plans with Seattle office. Bid guarantee 2%.

Work will involve interior and exterior painting; sandblasting; excavation; paving, seeding and planting; electrical and plumbing work. DM 12-12

■ HOSPITAL— Kotzebue, Alaska

Second list of planholders announced for construction of a 50-bed general hospital at Kotzebue, Alaska; Proj. No. ABU-PH-7. Bids will be opened 2 p.m., M.S.T., January 8, in the office of the Bureau of Indian Affairs, Geology Bldg., University of New Mexico, Albuquerque, New Mexico. Plans with Virgil R. Farrell, Seattle liaison office, Bureau of Indian Affairs, 107 Federal Office Bldg., 909 1st Ave., Seattle. Drawings and specifications must be returned to the B.I.A. Terminal, Pier 39, Seattle, after opening of bids.

Description of Work—Total floor area of approximately 56,200 sq. ft., which will include a one-story hospital building with two penthouses; a one-story service wing; a two-story hospital building with two penthouses; a one-story service wing; a one-story duplex apartment with full basement; a two-story, 20-unit apartment building with full basement.

General Construction — Hospital, steel frame with insulated metal roof deck, reinforced concrete floors, wood studs, plasterboard partitions, cement-asbestos wall covering over insulated exterior walls, hot water heat. Hospital operating room and delivery room, air conditioned; forced ventilation main kitchen and dishwashing; gravity ventilation elsewhere. Duplex apartment, frame construction. 20-unit apartment building similar to hospital except main floor and second floor, wood over steel bar joists. Concrete walks, gravel drives, and all utilities included.

Planholders: Eiford Company, 1750 State St., Bellingham, Wash.; Shaw Brothers, 17270 S.W. 131st St., Tigard, Ore.; United Equipment, Inc., 1204 Westlake N., Seattle, Wash.; Robert Painting Service, Box 2246, Fairbanks; Drywall, Inc., 4005 N. Colonial Ave., Portland, Ore.; Northern Commercial Company, 4233 W. Marginal Way, Seattle; James E. Smith Co., Box 964, Anchorage; The Furniture Mart, Nobel and Gaffney Rd., Fairbanks; Hal Brown Construction Service, Box 966, Boise, Idaho; Bumstead-Woolford Co., 320 S.W. Stark St., Portland; Salmon Bay Electric Co., 4728 Ballard Ave., Seattle; York Steel Co., Box 1705, Anchorage; Lents, Inc., 279 Fourth St., Bremerton, Wash.; Niedermeyer-Martin Co., Portland Trust Bldg., Portland; Isaacson Iron Works, Box 3028-Zone 24, Seattle; Refrigeration Engineering Co., 1718 Broadway, Seattle; F. T. Crowe and Co., Inc., 329 Second Ave. W., Seattle; William D. Burk, Loussac Bldg.-Room 11, Box 1618, Anchorage.

Brod and McClung, 9800 S.E. McBrod Ave., Portland; Inlet Plumbing and Heating Co., Box 3095, Anchorage; Elmer Woody Woodwork, 3635 16th Ave. W., Seattle; Bradley Zesbaugh, White-Henry-Stuart Bldg., Seattle; West Coast Metal Products, 110 Main St., Edmonds, Wash.; American Sterilizer Co., 7109 Woodlawn Ave., Seattle; Ceco Steel Products Corporation, 401 Tunnel Ave., San Francisco, Calif.; C. H. Malcolm Co., 3020 36th W., Seattle; Armstrong Contracting and Supply, 5035 1st Ave. S., Seattle; Foster Bray Co., Inc., 2410 1st Ave. S., Seattle; Chisum-Langlais, 710 Orca St., Anchorage; COR Manufacturers Representative, 531 First Ave. W., Seattle; Bethlehem Pacific Coast Steel Corp., Box 3827, Seattle; Jack T. Edwards, 306 Polaris Bldg., Fairbanks; Builders Specialties, 3601 Greenwood Ave., Seattle.

RM 12-16. Previous report 12-10

● BUILDINGS (Three New, Three Remodeled)— Shemya Island, Alaska

Bids will be opened 2 p.m., P.S.T., January 15, by Corps of Engineers, Alaskan district, in the Seattle office, 1519 S. Alaskan Way, on a U.S. Air Force project, construction

of three new buildings and rehabilitation of existing structures on Shemya Island in the Aleutians; Inv. 59-42.

Project includes: construction of a communications and operations building, a composite building and an auto maintenance and installation engineers shop building, including complete earthwork for construction of the buildings. Three existing buildings, a theater, gymnasium and bowling alley building, and a service and NCO club building, are to be rehabilitated. Other work includes: roads, installation of outside utilities, removal of existing buildings, and installation of approximately 46,200 sq. ft. of vinyl tile and 13,200 sq. ft. of linoleum. Tile and linoleum will be government-furnished. RM 12-16

ENGINEERING NEWS

Oregon, Washington, Idaho, Montana, Northern California, Alaska

- ● Bids Called
- ★ Contract Awards
- ▲ Low Bids—Bids Received
- ■ Planholders—Prospective Bidders

OREGON

▲SANITARY SEWER— Albany, Ore.

Five bids were opened December 10 by City Council, City Hall, Albany, for construction of sanitary sewer (approximately 320') within the city. BIDS: Jeske Bros. Construction Co., 1870 Pacific Highway N., Eugene, $2,647; Kenneth Forslund Construction Co., Hardscrabble Road, Albany, $2,996; Abrams Construction Co., Portland, $3,387; DenHerder's Construction Co., Inc., Lebanon, $3,513; R. I. Randolph Construction Co., Salem, $3,710.

DM 12-12. Previous report 12-5

●POWER LINE— Burns, Ore.

Bids will be opened 1:30 p.m., P.S.T., January 15, by Harney Electric Cooperative, Inc., Burns, Ore., for construction of 16.3 mi. of 14.4/24.9 kv power distribution line in Harney and Malheur counties, southeast of Crane, Ore. Specifications with above office or with Robert Welty, consulting engineer, Box 282, The Dalles, Ore. $10 charge. Completion time 40 working days. DM 12-12

★SEWER— Chiloquin, Ore.

Award to Jeske Bros., 1870 Pacific Highway 99 N., Eugene, $28,251, by City Council, City Hall, Chiloquin, for construction of extensions to the sanitary sewer system for East Chiloquin. Award was made on basis of alternates of cement-asbestos pipe and precast manholes. Bid opening December 5.

Work consists of construction of approximately 9,100' of 8" to 12" sewer pipe with manholes, lampholes and appurtenances and connection in East Chiloquin to the existing sanitary sewer system. Alternate bids will be received for concrete, vitrified or cement-asbestos pipe.

ZZ 12-12. Previous report 12-9

▲BRIDGES (Treated Timber)— Grant County, Ore.

Eleven bids ranging from a low of $26,076, by Hampton C. Platt, P. O. Box 27, Salem, to a high of $45,520, were received December 15 by U. S. Forest Service, administrative services section, 729 N.E. Oregon St., Portland (Box 4137), for construction of four treated timber bridges on Malheur National Forest, Grant County, Ore.

Other bids were: Russell M. Espedahl, 4906 N. Greeley Ave., and A. C. McCollister, 4201 N.E. 19th Ave., both Portland (joint venture), $26,883; Workman & Wilson, Route 1, Box 30, Canby, $32,452; Farwest Fence Co., P.O. Box 1692, Lake City Station, Seattle, $33,407; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland $34,439; D. Dwayne Amens, Box 271, McMinnville, $35,-882; H. G. Carl Construction Co., Box 387, Salem, $38,237; Maurice Hoist, Box 171, Oakridge, $38,497; Olin L. Hodge and Walter N. Jackson, Hermiston, $40,195; Teller Construction Co., 845 N. Graham, Portland, $43,740; Valley Construction Co., 6100 N.E. Columbia Blvd., Portland, $45,520.

WB 12-17. Previous report 12-10

●CLEARING, REMOVING IMPROVEMENTS— Jackson County, Ore.

Bids will be opened 10 a.m., P.S.T., January 13, by Bureau of Reclamation, in office of J. A. Callan, project construction engineer, Box 386, Camp White, Ore., for clearing, and removing buildings, fences and other man-made improvements from enlarged Emigrant Reservoir area, about eight mi. southeast of Ashland, Jackson County, Talent Division, Rogue River Basin Project; Spec. No. 100C-357. Specifications available from H. T. Nelson, regional director, Box 937, Boise, Idaho, or project construction engineer, above address. Completion time 275 calendar days. Bid bond 10%. RM 12-16

★TOWER EXTENSION— North Bend AFS, Ore.

Award to Alton V. Phillips, 4055 21st W., Seattle, $81,039, by Corps of Engineers, 1519 S. Alaskan Way, Seattle, for extension of water tower at North Bend Air Force Station, Ore.; ENG-45-108-59-24. Nine bids were received December 2.

Project involves construction of a reinforced concrete and masonry tower foundation; erection of Government - furnished tower; install 75' of steam supply and return lines and water line; grading; bituminous surfacing; installing drainage culvert.

KC 12-13. Previous report 12-3

●SWITCHBOARD INSTRUMENTS, METERS— Portland, Ore.

Bids will be opened 2 p.m., P.S.T., December 30, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing switchboard instruments and meters; Inv. No. 8910. Delivery 90 calendar days at Eavan Spur, Vancouver, Wash.

Specifications call for eight Watthour meters, switchboard; five printing demand meter, switchboard type; three totalizing relay, switchboard type; one totalizing relay, switchboard type. DM 12-12

●DISCONNECTING SWITCH (BPA)— Portland, Ore.

Bid opening has been extended to 2:30 p.m., P.S.T., December 30, on furnishing two disconnecting switches, 115 kv, 1200 amperes, three-pole, group-operated, for horizontal upright mounting without grounding blades, with insulators and one of same with grounding blades; Inv. No. 8907.

Bids will be opened by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland. Delivery 170 calendar days at Eavan Spur, Vancouver, Wash. Plans with Portland office. DM 12-12. Previous report 11-26

●CHAIN LINK FENCE (Install)— Portland, Ore.

Bids close 2:30 p.m., December 29, and will be opened 3:30 p.m., by Portland School District No. 1, 620 N.E. Halsey St., Portland, for installation of chain link fence at Washington High School. Certified check or bid bond 10%. WB 12-12

▲STREET IMPROVEMENTS—Portland, Ore.

Bids received December 10 by City Auditor, City Hall, Portland, for four street improvement projects. BIDS—ALLEY IN BLOCK 42, IRVINGTON PARK: Richard M. Palmer, 6031 S.E. Brooklyn St., $4,500; Zuber Bros. Contractor, 3600 S.E. 28th Ave., $4,676. ALLEY IN BLOCK 65, IRVINGTON PARK: Richard M. Palmer, $3,722; Zuber Bros., $3,970. N.E. SHAVER ST. FROM 16TH TO 17TH AVE.: Logan, Taylor & Co., 7800 N.E. Killingsworth St., $1,654; Portland Road & Driveway Co., 7295 S.E. King Road, $1,667; Charles T. Parker Construction Co., N.E. Cully and Columbia boulevards, $1,676; K. F. Jacobsen & Co., 1107 N. Russell St., $1,762. S.E. 72ND AVE. FROM S.E. CENTER ST. TO LAFAYETTE ST.: K. F. Jacobsen & Co., $5,824; Charles T. Parker, $6,441; Portland Road & Driveway Co., $6,568; Harold G. LaVelle, 10430 S.E. Bush St., $6,648; Logan, Taylor & Co., $6,806; Cascade Construction Co., Foot of S.W. Abernathy St., $7,256. All of Portland. WB 12-12. Previous report 12-5

●FILTERS, SLURRY TANKS— Portland, Ore.

Bids will be opened 2 p.m., December 23, by City Purchasing Agent, 208 City Hall, Portland, for three diatomaceous filters, slurry tanks and feed pump units for the Bureau of Parks. Certified check or bid bond 10%. WB 12-12

▲GRADING, BRIDGE (BPR)—Portland, Ore.

Eleven bids ranging from a low of $497,360 by Fred H. Stegeman & Associates, 455 A St., Lebanon, to a high of $846,126 were submitted December 11 to Bureau of Public Roads, 824 Morgan Bldg., Portland, for grading 8.306 mi. and constructing a 140' concrete girder bridge on Mt. Hood Highway,, Mt. Hood National Forest, Ore.; FHP 49-B3, D. 2ND LOW: Arthur O. Farber and Lloyd O. Pickett, Sweet Home, $516,036. Engineer's estimate $595,091.

WB 12-12. Previous report 12-10

IRRIGATION SYSTEM (Primate House)— Portland, Ore.

All bids rejected by City Purchasing Agent, 208 City Hall, Portland, for installation of an irrigation system for the Primate House at the Portland Zoological Gardens in Hoyt Park.

WB 12-12. Previous report 12-3

★MIXED CONCRETE— Portland, Ore.

Award to Tru-Mix Concrete, Inc., 637 S Water Ave., Portland, at unit prices quot by City Purchasing Agent, 208 City H Portland, for furnishing mixed concrete the city for the calendar year 1959.

WB 12-12. Previous report

★CONCRETE PIPE— Portland, Ore.

Award to Collins Concrete & Steel Pipe Co., 3841 N. Columbia Blvd., Portland, at unit prices quoted, by City Purchasing Agent, 208 City Hall, Portland, for furnishing concrete sewer pipe and concerte pipe to all city departments for calendar year 1959. WB 12-12. Previous report 12-5

★VALVES— Portland, Ore.

Award to Ardies Machinery & Sales, 425 S.E. 9th Ave., Portland, $16,695, by City Purchasing Agent, 208 City Hall, Portland, for one 12" rotary cone valve, one 24" rotary ball valve, and three electric valve operators, installed, for Bureau of Water Works. WB 12-12. Previous report 12-5

★HYDRANTS— Portland, Ore.

Award to Pacific States Cast Iron Pipe Co., Portland Trust Bldg., Portland, $8,898, by City Purchasing Agent, 208 City Hall, Portland, for furnishing 60 fire hydrants.

WB 12-12. Previous report 12-5

GENERATOR (Airport)— Portland, Ore.

A proposal will be ready for distribution soon by Civil Aeronautics Administration, procurement branch, 5651 W. Manchester Ave., Los Angeles, Calif. (Box 90007) for furnishing and installing a standby engine generator, revising distribution system and the air conditioning duct system at International Airport, Portland, Ore.; Proposal No. 4-59-1024. DM 12-13

●GALVANIZED STEEL— Portland, Ore.

Bids will be opened 3 p.m., P.S.T., December 30, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 135,000' of galvanized steel wire strand, fob Eavan Spur, Vancouver, Wash., or bidder's shipping point; Inv. No. 8912. Plans with Portland office.

ANNUAL FORECAST ISSUED FOR BUREC CONSTRUCTION
10 PNW Jobs Scheduled for Bid Call Through June

The Bureau of Reclamation, Denver Federal Center, Denver, Colo. has issued its annual forecast of construction invitations that will be issued by the chief engineer, Grant Bloodgood, during the balance of the fiscal year, February through June, 1959. Ten major jobs are listed for the Pacific Northwest.

DIVERSION DAM, CANAL HEADWORKS, Crooked River (A-6)—Crooked River Project, Ore. Located on the Crooked River south of Prineville, Ore. Work involves constructing a concrete diversion dam with a 100' long uncontrolled overflow crest and canal headworks.

Invitations will be issued about May.

DIVERSION STRUCTURES, Phoenix Canal (A-7)—Rogue River Basin Project, Ore. Located northeast of Talent, Ore. Work involves constructing a reinforced concrete overflow weir across Bear Creek, a reinforced concrete headworks structure with radial gate for the canal, and a rotating drum-type fish screen structure.

Invitations will be issued about May.

OUTLET WORKS MODIFICATION, Sherburne Lake Dam (A-12)—Milk River Project, Mont. Located 45 mi. northwest of Browning, Mont. Work involves modifying outlet works intake structure and replacing ringgate with two 4'x5' high pressure slide gates.

Invitations will be issued about April.

SIPHONS, East Lateral (A-17) — Rogue River Basin Project, Ore. Located between Medford and Ashland, Ore. Work involves constructing 10 small precast concrete pipe siphons, a bench flume, and two wasteways.

Invitations will be issued about April.

LATERALS, Blocks 21 and 48 (A-21)—Columbia Basin Project, Wash. Located near Taunton, Wash. Work involves earthwork and structures for about 11.5 mi. of concrete lined laterals with bottom widths varying from 8' to 2'.

Invitations will be issued about February.

CANAL, Diversion (A-22)—Crooked River Project, Ore. Located near Prineville, Ore. Work involves constructing about 6 mi. of canal which will include 3,000' of concrete lined canal with a 9' bottom width for unlined section and 6' bottom width for lined section.

Invitations will be issued about June.

CANALS, South Fork and Daley Collection (A-23)—Rogue River Basin Project, Ore. Located east of Medford, Ore. Work involves earthwork and structures for about 9 mi. of 65-cfs capacity unlined canal and about 1.5 mi. of 130-cfs capacity unlined canal.

Invitations will be issued about April.

CANAL, Distribution (A-26) — Crooked River Project, Ore. Located near Prineville, Ore. Work involves earthwork and structures for about 15 mi. of unlined canal with bottom widths varying from 9' to 2'.

Invitations will be issued about June.

CANAL ENLARGEMENT, Potholes East (A-27)—Columbia Basin Project, Wash. Located near Othello, Wash. Work involves earthwork and structures for enlarging about 3 mi. of canal.

Invitations will be issued about June.

WASTEWAY, WB10, No. 1 (A-32)—Columbia Basin Project, Wash. Located northwest of Mesa, Wash. Work involves earthwork and structures for about 3,000' of 14' bottom width wasteway.

Invitations will be issued about February.

Quantities: 75,000' of 3/8", 7-wire high strength; 50,000' of 5/8' 19-wire high strength; 10,000' of 5/8", 19-wire extra high strength, galvanized steel wire strand on reels.

DM 12-13

★JUMPER TERMINALS— Portland, Ore.

Awards to Service Bronze & Brass Works, 5032 S.E. 26th Ave., Portland, $775, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for furnishing 175 compression jumper terminals, both copper and aluminum; Inv. No. 8898. The only other bid received November 13 was from Beaver Aluminum and Bronze Co., 140 S.W. Arthur St., Portland, $1,048.

WB 12-13. Previous report 10-30

★DISCONNECTING SWITCH— Portland, Ore.

Award to Schwager-Wood Corp., 8024 S.W. 35th Ave., Portland, $30,540, by Bonneville Power Administration, 1001 N.E. Lloyd Blvd., Portland, for disconnecting switch; Inv. No. 8886. Five other bids ranging to a high of $69,769 were received November 12.

WB 12-13. Previous report 11-1

★DREDGING CHANNEL— Portland, Ore.

Award to General Construction Co., Box 3860, Portland, $192,150, by Corps of Engineers, Pittock Block, Portland, for dredging channel in the Columbia River 300' wide and 27' deep, and disposing of excavation material, between Vancouver, Wash., and The Dalles, Ore.; CIVENG-35-026-59-70. (Previous report erroneously gave low bid as $192,450.)

WB 12-13. Previous report 11-26

▲GRADING, BRIDGE (BPR)—Portland, Ore.

Bids taken under advisement by Bureau of Public Roads, 824 Morgan Bldg., Portland, for grading 8.306 mi. and constructing a 140' concrete girder bridge on Mt. Hood Highway, Mt. Hood National Forest, near Parkdale, Ore.; FHP 49-B3, D. Bids were opened December 11. BIDS: Fred H. Stegeman & Associates, 455 "A" St., Lebanon, $499,361 (corrected figure); Arthur O. Farber and Lloyd E. Pickett, Sweet Home, $516,036; G. D. Rannells Construction Co., Route 2, Box 264, Aurora, $519,533; J. A. Troxell and M. J. Brassfield, 975 Imperial Drive, Salem, $547,201; Fred H. Slate Co., Oreg. Ltd., 7805 S.W. 40th Ave., and E. C. Hall Co., 11655 S.W. Barbur Blvd., both Portland (joint venture), $568,014; Commercial Iron Works, 2021 S.E. Grand Ave., Portland, $577,205; Vernie Jarl, Box 507, Gresham, $595,420; Kenneth C. Dack Construction Co., Box 642, Pendleton, $713,028; Funderburk Construction Corp., Sutherlin, $721,187; C. R. O'Neil, Box 95, Route 2, Creswell, $818,714; Durbin Bros. Construction Co., Box 490, Route 5, Eugene, $846,326 (corrected figure). Engineer's estimate, $595,091.

WB 12-13. Previous report 12-12

★WATER MAIN— Portland, Ore.

Award to Harbert Construction Co., P.O. Box 491, Longview, $11,421, by 337th Fighter Group, Portland International Airport, Portland, for laying a water main in "G" St. from 1st to 3rd Ave. and along 1st Ave. from "G" St. to "M" St. at the airport; Inv. IFB-59-31. WB 12-13. Previous report 12-9

★STATE HIGHWAY PROJECTS— Salem, Ore.

Four contracts were awarded and four projects recommended for award on eight highway jobs on which bids were opened December 9 by Oregon State Highway Commission, 418 State Highway Bldg., Salem.

STOCKPILE, Alsea Highway—12,000 c.y. crushed materials in stockpiles, Alsea Rock Production Project on Alsea Highway and Alsea-Deadwood Highway between Lincoln County line and Philomath, Benton County; a State Project.

AWARD: Stevenson Construction Co., 2055 S. 19th, Salem, $38,160.

GRADING, PAVING, S. Third St. (Bend)—Grading and paving 1.02 mi. of The Dalles-California Highway in Bend, Deschutes County; FAP No. F-123(16).

Award recommended to Babler Bros., Inc., 4617 S.E. Milwaukie, Portland, $148,348, upon approval of City of Bend and Bureau of Public Roads.

BRIDGE, Antelope Creek—Construct 88' reinforced concrete bridge on Riley Road, 2.5 mi. south of Eagle Point, Jackson County. Bids received for Jackson County Court.

Bids referred to Jackson County for award. LOW BID: R & M Construction Co., Central Point, $18,485.

OVERCROSSING, SPRR and Pelican City Road — Construct 224' reinforced concrete overcrossing to carry The Dalles-California Highway over Southern Pacific Railroad and Pelican City Road, approximately 0.3 mi. north of city limits of Klamath Falls, Klamath County; FAP No. F-205(10).

Award recommended to Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $71,648, upon approval of Bureau of Public Roads and upon completion of agreements with Southern Pacific Railroad Co.

FENCING, Tillamook County line-Salmon River—Construct 1,000 rods of 5-line barbed wire fence on Oregon Coast Highway, about 5 mi. south of Neskowin, Lincoln County; a State Project.

AWARD: Kenneth E. Nielsen, 5025 Robindle Drive, Salem, $6,610.

PAVING, Lebanon Road - Halsey Interchange—Paving 11.25 mi. of relocated Pacific Highway, about 6 mi. south of Albany, Linn County; FAIHP No. I-5-4(26)216.

AWARD: Warren Northwest, Inc., Box 5072, Portland, $1,507,104.

BUILDING ADDITION, Tillamook—Construct 36'x38' masonry block building with asbestos shingle roof at Highway maintenance yard, Tillamook County.

AWARD: C. J. Montag & Sons, 7805 N.E. Halsey, Portland, $15,300.

GRADING, BASE, OILING, Meda—Construct 0.96 mi. grading, 1.91 mi. stone base, 2.23 mi. oiling on Meda section of the Little Nestucca Highway, about 4 mi. south of Cloverdale, Tillamook County; FAP No. S-214(5).

Award recommended to F. E. Wilburn, Springfield, $55,942, upon acquisition of right-of-way.

DM 12-13. Previous report 12-10

★STATE HIGHWAY PROJECTS— Salem, Ore.

Thirteen contracts were awarded and three jobs recommended for award by Oregon State Highway Commission, 418 State Highway Bldg., Salem, on the 16 highway projects on which bids were opened November 12.

BRIDGE, Eagle Creek—Construct 170' reinforced concrete bridge on County Road No. FAS-511, 1.3 mi. south of Richland, about 40 mi. east of Baker, Baker County; FAP No. DS-404(1).

AWARD: Bechtel Bros., 2107 Depot St., LaGrande, $44,163.

BRIDGE, Powder River—Construct 150' reinforced concrete bridge and 0.11 mi. grading on Richland-South Road (FAS No. 511), about 2.1 mi. southwesterly from Richland, Ore., Baker County; FAP No. S-404(2).

AWARD: Bechtel Bros., LaGrande, $41,597.

GRADING, PAVING, BRIDGE, Davis Slough Section—Grading and asphaltic concrete paving 1.24 mi. and constructing 437' of reinforced concrete bridge on Oregon Coast Highway about five mi. south of Coos Bay, Coos County; FAP No. F-109(9).

AWARD: Coos Bay Dredging Co., Inc., Coos Bay, $606,722.

BUILDING ADDITION, Highway Maintenance Building at Reedsport — Construct 32'x56' concrete block masonry addition, Douglas County; a State Project. Requires glazing, lumber framed roof, asbestos-cement shingles to match existing J.M. asbestos shingles.

AWARD: Tom Lillebo Construction Co., Reedsport, $7,505.

STRUCTURES, Calapooya and Stearns Lane—Approximately 18' widening to each side of existing structure on Pacific Highway, about two mi. west of Oakland, Douglas County; FAIHP No. I-5-3(7)137.

AWARD: Tom Lillebo Construction Co., Reedsport, $152,613.

GRADING, Josephine County Line-Evans Creek Section—Grading 2.97 mi. on Pacific Highway about five mi. east of Grants Pass, Jackson County; FAIP No. I-51(7)50.

Award recommended to Earl L. McNutt

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Co., 351½ E. Broadway, Eugene, $564,500 upon right-of-way acquistion and approval of Bureau of Public Roads.

STRUCTURE, Klamath Falls — Construct 474.5' reinforced concrete deck girder and prestressed concrete beam structure to carry The Dalles-California Highway over California Ave., Klamath County; FAP No. DU-205(8).

AWARD: Tom Lillebo Construction Co., Reedsport, $199,720.

PARK EXTENSION, Jessie M. Honeyman State Park—Construct 12 trailer sites, 58 camp sites, access roads, utility building, latrine, and water, sewer and electrical systems, on Oregon Coast Highway about 2.5 mi. south of Florence, Lane County; a State Project.

AWARD: Eugene Gardens, Eugene, $55,-054.

PARK EXTENSION, Beverly Beach Park—Construct 22 trailer sites, 60 campsites, access roads, utility building, latrine and water, sewer and electrical systems on Oregon Coast Highway about six mi. north of Newport, Lincoln County; a State Project.

AWARD: Eugene Gardens, Eugene, $82,-523.

DRAINAGE STRUCTURES, on Relocated Pacific Highway—Construct five drainage structures approximately 14 mi. to 17 mi. south of Albany, Linn County; FAIP No. I-5-4(28)217. Involves four reinforced concrete deck girder structures and one slab structure.

AWARD: Tom Lillebo Construction Co., Reedsport, $312,193.

BUILDING, State Highway Department Sign Department—Construct 60'x310' reinforced concrete and masonry block building with some structural roof trussing and with built-up roof in Salem, Marion County; a State Project.

AWARD: Monson & Sivers, 5000 E. 25th, Portland, $96,954.

UNDERCROSSING, Porter Street—Construct 642', 11-span reinforced concrete deck girder bridge with a 118', 2-span off-ramp to carry arterial traffic over Pacific Highway (Baldock Freeway) near S.W. Porter St. in Portland, Multnomah County; FAIP No. I-5-6(12)300.

AWARD: Lord Bros., Contractors, 9233 N. Calvert, Portland, $289,493.

PAVING, S.W. 11th Ave.-Tigard Interchange Unit, Harbor Drive - Washington County Line Section—Asphaltic concrete paving 2.97 mi. on Pacific Highway (Baldock Freeway), in Portland, Multnomah County; FAIP No. I-5-6(13)295.

AWARD: Peter Kiewit Sons' Co., Box 1777, Vancouver, Wash., $1,161,017.

GRADING, OILING, BRIDGE, E. Birch Creek Bridge-Pearson Creek Road Section—Grading and oiling 5.8 mi. and constructing 24' reinforced concrete bridge on E. Birch Creek Road about 3.5 mi. south of Pilot Rock, Umatilla County; FAP No. S-409(1).

AWARD: K. C. Dack Construction Co., Pendleton, $224,994.

GRADING, Rowena - Chenoweth Creek Section—Grading 5.55 mi. Columbia River Highway about seven mi. east of Mosier, Wasco County; FAIP No. I-80N-3(7)74.

Award recommended to Rogers Construction Co., Inc., 11760 N.E. Glisan, Portland, $293,184, upon right-of-way acquistion and approval of Bureau of Public Roads.

GRADING, OILING, Pioneer Creek-Service Creek Section—Grading, oiling 7.94 mi. John Day Highway north from town of Service Creek and about 12 mi. south of Fossil, Wheeler County; FAP No. F-64(3).

Award recommended to Earl L. McNutt Co., Eugene, $521,803, upon acquistion of right-of-way and approval of Bureau of Public Roads.

DM 12-13. Previous report 11-13

●ROAD CONSTRUCTION—Waldport, Ore.

Bid call cancelled and will be readvertised later by U.S. Forest Service, administrative services section, 729 N.E. Oregon St., Portland (Box 4137), for construction of approximately 0.67 mi. of Tillicum Beach Road No. 1497, approximately 4 mi. south of Waldport on Siuslaw National Forest, Lincoln County, Ore.; Bid No. R6-59-162. Bid opening was scheduled for December 11.

WB 12-13. Previous report 12-3

▲AIR COMPRESSOR— West Linn, Ore.

The six bids received January 14 were rejected by the City Council, City Hall, West Linn, for one gasoline driven piston type air compressor with all operating accessories. Specificaitons will be rewritten, and new bids will be opened January 14.

WB 12-13. Previous report 11-28

WASHINGTON

●SEWAGE PUMP, MOTOR— Bellevue, Wash.

Bids will be opened 8 p.m., December 23, by Lake Hills Sewer District, Thomas A. Kilburn, secretary, 15450 Lake Hills Blvd., Bellevue, for furnishing and installing a 100-gpm sewage pump, with 40' total head, at existing lift station. Plans and specifications with Howard T. Harstad & Associates, consulting engineers, 2512 2nd Ave., Seattle. PD 12-17

WATER SUPPLY— Bellingham, Wash.

Bids may be called in January for project which includes bringing additional water supply to Bellingham from the middle fork of the Nooksack River, for the city of Bellingham. John W. Cunningham & Associates, consulting engineers, Portland Trust Bldg., Portland, requested preparation of topographical map of a larger area around the proposed 9,000 ft. tunnel exit on the west side of Bowman Mountain. Map to show slope at the exit, location of a nearby creek, and the axis of the tunnel and pipeline which will run from the tunnel exit to Mirror Lake.

ET 12-13. Previous report 9-4

●WATER TOWER DEMOLITION— Bremerton, Wash.

Bids will be opened 10 a.m., January 7, by E. H. T. McGowan, city clerk, City Hall, Bremerton, for demolition of a wooden water tower located in Bremerton. Specifications with above office. The contract includes removal of all materials from the site except the concrete base which is to be left in place. DM 12-16

●FENCE— Bremerton, Wash.

Bids wil be opened 10 a.m., December 24 by E. H. T. McGowan, city clerk, City Hall, Bremerton, for furnishing and installing a wire mesh, barbed wire, fence 834' long, 8' high plus one 14' double-swing gate, around the city reservoir. Specifications with above office. DM 12-16

●DOLPHIN (Columbia River)— Carrolls, Wash.

Bids will be opened 2 p.m., P.S.T., December 23, by 13th Coast Guard District, 618 2nd Ave., Seattle, for construction of five-pile dolphin and platform for the Cottonwood Island Light 35 on the Columbia River at Carrolls, Wash.; Bid No. FS-1879. Plans with Seattle office. Bid bond 5%.

DM 12-12

▲PUMPS— Columbia Basin Project, Wash.

Eight bids were opened December 11 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob Othello, Wash., two motor-driven horizontal, centrifugal-type pumping units, each having a capacity of 20 cu. ft. per sec. under a total head of 106 ft., for White Bluffs Pumping Plant No. 2, Wahluke Branch Canal Laterals (Block 201), Columbia Basin Project, Wash.; Inv. DS-5121.

LOW BIDS: American Ligurian Co., Inc., New York, N.Y., $25,840; Peerless Pump Division, Food Machinery and Chemical Corp., Indianapolis, Ind., $27,733; Allis-Chalmers Manufacturing Co., Denver, Colo., $30,610. Completion time 300 calendar days.

DM 12-17. Previous report 11-6

●DEBRIS DISPOSAL—Cowlitz River, Wash.

The bid opening, scheduled for 2 p.m., December 23, has been cancelled by Corps of Engineers, 628 Pittock Block, Portland, Ore., for disposal of snags, piling and debris accumulated as a result of snagging operations in the Cowlitz River between the mouth and Ostrander, Wash.; CIVENG-35-26-59-88. RM 12-16. Previous report 12-9

★FLAGPOLE (GSA)— Ellensburg, Wash.

Award to Nick Hemminga, 627 38th St., San Francisco, Calif., $1,449, by General Services Administration, 909 1st Ave., Seattle, for removing existing roof flagpole and board walk and erecting new ground flagpole and concrete sidewalks at the U.S. Post Office in Ellensburg; Proj. No. SEA-1264. AM 12-17. Previous report 12-6

▲LATERAL REVISION (BuRec)— Ephrata, Wash.

Two bids received by Bureau of Reclamation, Division Ave. and C St. N.W., Ephrata, (Box 368), for EL18 lateral revision—Block 40, located approximately three mi. north of Moses Lake, Grant County; Spec. No. 117C-529.

BIDS: Duncan Construction Co., E. Broadway, Moses Lake, $12,068; Syblon-Reid Construction Co., Warden, $12,766. Engineer's estimate $12,430.

Quantities: 750 c.y. excavation and backfill of siphon pipe trench; 95 c.y. excavation for structures; 220 c.y. backfill about structures; 70 c.y. compacting backfill; 70 c.y. puddling backfill; 6 c.y. coarse gravel protection; 9 c.y. concrete in structures; 14 bbl. cement; 720 lb. reinforcement bars; 20', 15" standard-strength reinforced - concrete culvert pipe, type B joints; 600', 27" HC50 concrete pressure pipe, type R joints; 16', 60" standard strength reinforced-concrete culvert pipe for pipe stand; 1, 15" cast-iron slide gate and lift; 20 lb. miscellaneous metalwork; 20 sq. yd. prefabricated membrane lining.

AM 12-12. Previous report 11-20

●ROADS, STRUCTURES (BuRec)— Ephrata, Wash.

Description follows on eight mi. of earth lining, gravel road surfacing and structure alterations on W53.ID and W53.IE, Laterals, Block 79, south of Quincy, Spec. No. 117C-536, on which bids will be opened 10 a.m., P.S.T., January 8, by Bureau of Reclamation, Division and C St. N.W., Ephrata (Box 368). Plans with above Ephrata office. Completion time 60 and 100 days.

Earthwork for about 8 miles of compacted earth lining for laterals with 5' to 8' bottom widths; preparation of subgrade and placing gravel surfacing for about 8 mi. of O. & M. operating roads; altering existing structures, including check and pipe inlets, checks, and constant head orifice turnout.

Quantities: 98,050 c.y. excavation; 160 c.y. gravel; other work.

KT 12-17. Previous report 12-12

▲DRAINS, LATERALS (BuRec)— Ephrata, Wash.

Bids were opened December 16 by Bureau of Reclamation, Division Ave. and C St., N.W. (Box 368) Ephrata, for construction of drains and laterals in Blocks 13, 14, 15, 16, south and west of Mesa, Franklin County, Columbia Basin Project, Wash.; Spec. No. 117C-530.

BIDS: Kenneth Beck, Box 518, Moses Lake, $26,070; Knapton-Yearout, Star Route, Moses Lake, $29,155; Floyd Grubb, 434 Union Ave., Salem, Ore., $32,406; John M. Keltch, Box 504, Pasco, $33,087; Paul E. Hughes, 3023 W. Hood Ave., Kennewick, $32,806. Government estimate $32,680.

Features of Work—Earthwork for about 0.5 mi. of open drains and lateral with 2' bottom width; earthwork for and construction of about 2,080' of 18" concrete pipe chute; earthwork for and construction of structures along the drains and laterals including pipe drain outlet, manhole, road, lateral and ditch crossings, pipe inlet structure, division box, constant head orifices, steel pipeline crossing supports, drain inlet; alterations of an existing division box.

Quantities: 10,200 c.y. drain, lateral excavation; 3,000 c.y. borrow excavation; 300 mi. c.y. overhaul; 1,500 c.y. compacting embankments; 37 M gal. water; 420 c.y. structure excavation; 370 c.y. backfill about structures; 400 c.y. compacting backfill about structures; 300 c.y. puddling backfill about structures; 2,610 c.y. excavation and backfill of pipe chute trench; 10 c.y. riprap; 5 c.y. sand and gravel or crushed rockbedding or

riprap; 25 c.y. coarse gravel protection; 14 c.y. concrete in structures; 21 bbl. cement; 1,300 lb. reinforcement bars; 0.15 MBM timber in structures; 20' of 15", 1,430' of 18" standard strength reinforced concrete culvert pipe with type B joints; 1,076' of 18" same with A joints; 30' of 15", 14' of 24" corrugated metal pipe; 218' of 24" asbestos bonded corrugated metal pipe; 21' of 6" concrete irrigation pipe for pipe vents; 3 cast iron slide gates and lifts; 3 steel slide gates and lifts; 280 lb. miscellaneous metalwork; one manhole; alter existing division box. DM 12-17. Previous report 11-25

●FENDER PILING— Everett, Wash.

Bids will be opened 8 p.m., January 6, by Port of Everett, Pier 1, Everett, for furnishing and installing 75 creosote treated fender piling at 14th St. dock, Everett. Plans and specifications with above office, or with James H. Reid & Associates, consulting engineers, 324 Main, Edmonds. $10 deposit. PD 12-16

●CEMENT-MORTAR LINING— Everett, Wash.

Bids will be opened 10 a.m., January 14, by John L. Sugars, city clerk, City Hall, for cement mortar lining certain portions of Pipe Line No. 2 across the Snohomish River flat. Plans with city clerk or with John W. Cunningham & Associates, consulting engineer, 714 Portland Trust Bldg., Portland, Ore. $5 deposit. Certified check 5%.

The work involves cement mortar lining three separate sections (1,400', 4,350' and 450' long), 48" buried steel pipe. HH 12-16

▲CLEARING, GRADING (Sultan River Pipeline)— Everett, Wash.

Bids were opened December 11 by City Council, City Hall, Everett, for clearing, grubbing and rough grading approximately 28,200' of right-of-way for the Sulton River water transmission pipeline. Consulting engineers are John W. Cunningham & Associates, 714 Portland Trust Bldg., Portland.

LOW BIDS: Carlson & Wahto, Inc., Skykomish, $4,970; Dale Speed, Route 3, and Ingvard Nerland, Route 2, (joint venture) Arlington, $5,983; C. W. Simmons, 1725 112th, Everett, $6,406. Twelve bids were received.

The project is Sultan River Project No. 4 and work will be performed in Unit 3 of the Sultan River transmission pipeline and will extend from the Panther Creek Screening Plant to pipeline Station 907, which is about 1,670' east of Cavalero's Corner. The total distance is 28,200' some of which is already cleared. Work will include clearing and grubbing and rough grading of the southerly right-of-way strip preparatory to excavation and installation of pipe to be installed under another contract.

This is the third phase of construction on the city's water system rehabilitation and construction program initiated in 1957. The supply end it at Lake Chaplain.

DC 12-12. Previous report 12-5

POWER TRANSMISSION— Everett, Wash.
(Budget estimate $2,854,932)

Snohomish County Public Utility District No. 1, 2320 California St., Everett, has announced its construction budget for 1959. Projects listed are as follows: 1—expansion of Everett substation, $265,000, 2—addition to waterfront substation, $75,000; 3—expansion of old lines and construction of new, $255,000; 4—construction of substations in Silver Lake and Five Corners area, $130,000 and $185,000 respectively; 5—expansion of several existing substations, $66,000; 6—extension of 55 kv line at Sultan, $90,000; 7—construction of 300,000 gal. storage tank for Lake Stevens water system, $88,000; 8—installation of meters, transformers, additional lines, $1,505,000. HH 12-17

ROADS— Franklin County,, Wash.

Road construction budget of $682,000 has been approved by the Franklin County Commissioners, Courthouse, Pasco, for 1959. Largest expenditure for construction is $460,000 for road building in Columbia Basin Project's Block 20. Other construction projects from the Spokane bypass highway includes $66,000 to resurface and widen

THREE FIRMS SELECTED BY AEC FOR NUCLEAR STUDY
Reports on First Phase To Be Made By March 1959

The Atomic Energy Commission has selected as a basis for contract negotiation, proposals by three architect-engineering firms for the performance of design and engineering studies of nuclear power reactor concepts. Each firm will make surveys and studies with a subcontractor.

The firms selected are Stone & Webster Engineering Corp., who have a local office in Lloyd Bldg., Seattle, Wash., for study of pressurized water; Ebasco Services, Inc., Equitable Bldg., Portland, Ore., for boiling water study; Bechtel Corp., 612 S. Flower, Los Angeles, Calif., for organic cooled study.

Eighty-six proposals from 32 architect-engineering firms were evaluated before the commission made the above selections. The proposals were received in response to an invitation issued by the commission in September.

The purpose of the three studies is to determine the design which would lead to the most economical nuclear power station for each of the three concepts. Consideration will be given to the present status of nuclear technology for these three types, projected power requirements, the characteristics of available generating equipment and the possibility of the start of construction on the first unit of each type by a private or public organization in the United States or abroad by July, 1960.

Reports on the first phases of work under each contract must be submitted to the commission by March 23, 1959. The commission, in turn, will submit a report on the initial results to the Joint Committee on Atomic Energy of the Congress by May 1, 1959.

DM 12-17

Court St. for 2½ mi. to Road 68; $6,000 to widen Sylvester St. from the bypass to Road 60; $72,000 to straighten and widen Kahlotus Hill on the Kahlotus Road.

Bids may be called in January for the construction of roads in Columbia Basin Project Block 20. AC 12-17

▲EMBANKMENT PROTECTION— Ice Harbor Lock and Dam, Wash.

Bids were opened December 11 by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, for embankment protection along the S.P.& S. Railway, Ice Harbor Lock and Dam, reservoir area, Snake River, Franklin County, Wash.; CIVENG-45-164-59-15.

LOW BIDS: R. A. Heintz Construction Co., 211 N.E. Columbia Blvd., Portland, $2,242,215; S. S. Mullen, Inc., 646 Holgate, Seattle, $2,358,956; Stoen Construction Co., 2210 E. 95th and P. J. Anderson & Sons, 13501 Aurora, Seattle, joint venture, $2,262,216.

OTHER BIDS: J. N. Conley and G. D. Dennis & Sons, Portland joint venture, $2,803,741; Montag-Halvorson-Austin & Associates, Pasco, $2,839,500; James Crick & Sons, N. A. Degerstrom, Murphy Bros. and Hobson & Roberts, Spokane, joint venture, $2,848,343; Charles C. Parker Construction Co., Portland, $2,956,321; Cherf Bros., Inc., and Sandkay Contractors, Inc., Ephrata, $2,971,144; William A. Smith Contracting Co., Kansas City, $3,067,920; Fred H. Slate and E. C. Hall, Portland, joint venture, $3,173,022; Gibbons & Reed, Salt Lake City, Utah, $3,227,989; Peter Kiewit Sons' Co., Vancouver, $3,323,712; J. A. Jones Construction Co., Seattle, $3,488,950; Guy H. James Construction Co., Oklahoma City, $4,016,532; Morrison-Knudsen Co., Inc., Seattle, $4,348,198; Green Construction Co. and Winston Bros., Seattle, $4,473,984. Engineer's estimate, $3,247,208.

Quantities: 82,000 c.y. excavation; 2,862,000 c.y. granular embankment; 92,000 c.y. rock embankment; 1,000 hours rolling; 1,900 c.y. rock fill in culverts; 49,000 c.y. random embankment; 80,000 c.y. riprap class A; 24,000 c.y. riprap, class B; 10,000 c.y. riprap in quarry; 30,000 c.y. ballast in stockpile; 598' of 96" tunnel liner; 284" of 84" tunnel liner; 416' of 48" tunnel liner; 66' of 60" corrugated metal pipe; 406' of 48" same; 796' of 36" same; 70 of 30" same; 65' of 24" same; various size elbows for corrugated metal pipe culverts; 220 rod fence, type A; 51 brace panels type A; 13 corner panels, type A; two end panels, type A; 360 rod fence, type B; 1,720 rod remove existing fence.

DM 12-13. Previous report 12-3

■EQUIPMENT (Turbines)— Ice Harbor Dam, Wash.

Planholders announced on designing, manufacturing, testing and delivering turbine governting equipment for three "Kaplan" type turbines and furnishing a set of spare parts and tools and the services of a supervising erector for Ice Harbor Dam, Wash.; CIVENG-45-164-59-29. Bids will be opened 2:30 p.m., P.S.T., March 3, by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla.

Planholders: Allis-Chalmers Manufacturing Co., White-Henry-Stuart Bldg., Seattle; American Ligurian Co., Inc., Room 1239, 55 W. 42nd St., New York, N.Y.; Allied Engineering Associates, 2604 N.E. 28th Ave., Portland, Ore.; Branon & Leiland Instrument Co., 2133 37th Ave., Seattle; Chicago Pneumatic Tool Co., 2901 1st Ave. S., Seattle; English Electric Export and Trading Co., 23-25 Beaver St., New York, N.Y.; Electric Transmission Equipment Co., 208 Board of Trade Bldg., Portland, Ore.; Goslin Birmingham Manufacturing Co., Inc., Box 631, Birmingham, Ala.; Misco, Inc., 1123 W. Hanford, Seattle; S. Morgan Smith, 143 34th N., Seattle; Vickers, Inc., 623 8th Ave. S., Seattle; Woodward Governor Co., 5001 N. 2nd, Rockford, Ill.; The Pelton Water Wheel Co., 2[illegible] 19th St., San Francisco, Calif.; East S[illegible] Electric, Box 190, Klamath Falls, Ore.

Quantities: 3 turbine governing equipment complete with auxiliaries; lump s[illegible] for wrenches and tools; 200 man-day services of one or more supervising erectors. Spare Parts: 1 pilot-valve plunger and bushing; 1 gate relay-valve plunger and bushing; 1 blade relay-valve plunger and bushing 1 complete governor head; 1 governor head motor complete with stator and rotor; 1 governor head drive generator complete with all components including speed switches and driving mechanism; 1 complete dashpot assembly; 1 complete set of all packings for one governor; 1 governor oil pump complete with pilot, unloader, safety and shutoff valves and motor; 1 control switch of each type; 1 coil for each type of solenoid operated device; 1 pressure switch or relay of each type. DM 12-17. Previous report 11-29

●EXCAVATION (Navigation Lock, Abutment)— John Day Dam, Wash.

Bids will be opened 2 p.m., January 14 by Corps of Engineers, Bldg. 602, City County Airport, Walla Walla, for excavation for navigation lock and right abutment embankment, and construction of railroad embankment, John Day Lock and Dam; CIVENG-45-164-59-34. Plans with Walla Walla office. Bid bond 20%.

Quantities: 50,000 c.y. common excavation; 340,000 c.y. rock excavation; 490,000 c.y. embankment. KT 12-12. Previous report 12-10

IRRIGATION IMPROVEMENT— Kennewick, Wash.
(Estimated cost $3,400)

Studies are being made for a possible local improvement district for irrigation of 87 dwelling lots in Lampson Homesites, Kennewick, by the Kennewick Irrigation District, 214 W. 1st Ave., Kennewick. AC 12-13

●DIKES (Army Engineers)— Longview, Wash.

Bids will be opened 2 p.m., P.S.T., December 30, by Corps of Engineers, 628 Pittock Block, Portland, Ore., for extension of pile dikes 41.6 and 42.0 and repairs to dike

42.6 in the Columbia River at Dobelbower Bar near Longview, Wash.; CIVENG-35-026-59-93. Plans with Portland office. Bid bond 20%. Completion time 90 calendar days.

Quantities: 14,950' of Douglas fir piling in place; 4,800 lb. hardware in place; 5,250 c.y. stone in place; 4,000 c.y. excavation.

DM 12-13

★COMPRESSOR MODIFICATION—
Mukilteo, Wash.

Contract has been conditionally awarded to Glantz Supply, 2732 Hoyt, Everett, $1,230, by U.S. Air Force, base procurement office, Paine Air Force Base, for modification of compressor at the petroleum testing laboratory at Mukilteo; Inv. No. 45-602-59-55. Bid opening December 5. The order to proceed will not be issued until funds have been received. HH 12-13. Previous report 11-18

★GRADING, SURFACING—
Neah Bay, Wash.

Contract has been conditionally awarded to J. D. Dutton, Route 6, Olympia, $42,482, by U.S. Air Force, base procurement office, Paine Air Force Base, for grading and surfacing Road 851-147 at Makah Air Force Station, Neah Bay; Inv. No. 45-602-59-49. Bid opening November 25. The order to proceed will not be issued until funds have been received.

HH 12-13. Previous report 11-28

■ STATE HIGHWAY PROJECT
(Lake Washington Ship Canal Bridge)—
Olympia, Wash.

Planholders announced on construction of superstructure of Lake Washington Ship Canal Bridge on the route of the Seattle Freeway in Seattle. Bids will be opened 10 a.m., December 23, by Washington State Highway Commission, Transportation Bldg., Olympia.

Planholders: Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle; Peter Kiewit Sons' Co., Box 1777, Vancouver; Gunderson Bros. Engineering Corp., 4700 N.W. Front Ave., Portland, Ore.; John Steenmeyer & Sons, Box 208, Bellingham; The Steel Construction Co. of Oregon, 5300 N.W. Front Ave., Portland; Runnels Industries, 16826 Pacific Highway S., Seattle; Puget Sound Painters, Inc., 6323 Brooklyn Ave., Seattle; Oregon Iron Works, 508 N. Tillamook, Portland; Northwest Steel Rolling Mills, Inc., 4315 9th Ave. N.W., Seattle; Henry J. Kaiser Co., 1924 Broadway, Oakland, Calif.; Isaacson Iron Works, Box 3625, Seattle; General Construction Co., 3840 Iowa Ave., Seattle; L. B. Foster Co., Box 548, Carnegie, Pa.; C. M. Corkum Co., 2630 S.W. 2nd Ave., Portland.

Alton V. Phillips Co., 4055 21st Ave. W.; Seattle; Bethlehem Pacific Coast Steel Corp., Box 3827, Seattle; United States Steel Corp., American Bridge Division, 309 S.W. 6th, Portland; Olympic Steel Works, 1515 Horton St., Seattle; Pacific Car and Foundry Co., 4th and Factory streets, Renton; C. H. Savage Co., 4126 S.E. Milwaukie Ave., Portland; Scheumann & Johnson, 1014 Lloyd Bldg., Seattle; Washington Iron Works, 1500 6th Ave. S., Seattle; Louis Eltherich Co., Box 868, Port Angeles; Paul Jarvis, Inc., Box 4001, Magnolia Station, Seattle; Judson Pacific-Murphy Corp., 4300 Eastshore Highway, Emeryville, Calif.; S. S. Mullen, Inc., Box 3886, Terminal Annex, Seattle; Pool, McGonigle & Dick, 6300 N.E. Halsey, Portland; Kaiser Steel Corp., Fabricating Division, Box 390, Napa, Calif.; Rumsey & Co., 3821 Airport Way, Seattle; Van S. McKenny Co., Inc., 104 Wall, Seattle; United Concrete Pipe Corp., Box 467, Auburn.

DelGuzzi, Inc., Box 591, Port Angeles; MacRae Bros., 5900 2nd Ave. S., Seattle; Donald W. Close, 2921 13th S.W., Seattle; West Coast Steel Works, Box 2627, Portland; Glacier Sand and Gravel Co., 5975 E. Marginal Way, Seattle; Kaiser Aluminum and Chemical Sales, Inc., 910 5th Ave., Seattle; Independent Iron Works, Inc., Box 4729, Bayshore Annex, Oakland, Calif.; Fischbach & Moore, Inc., 3201 Fremont, Seattle; Fick Foundry Co., 1005 E. D St., Tacoma; Fellstrom Electric Co., 2211 9th Ave., Seattle; A. H. Barbour & Son, Inc., 2828 N.E. Alberta, Portland; Western Steel Casting Co., 145 Horton St., Seattle; Donald M. Drake Co., 1600 N.W. Savier, Portland; Pittsburgh-Des Moines Steel Co., 1015 Tuttle St., Des Moines, Iowa; Klaas Bros., Inc., 2012 Hyperion Ave., Los Angeles, Calif.; Lee Hoffman, Inc., 415 N. W. Cedar, Beaverton, Ore.; John F. Beasley Construction Co., 20 N. Wacker Drive, Chicago, Ill.; Rothschild, Raffin & Weirick, 274 Brannan St., San Francisco, Calif.

H. P. Fisher & Sons, 5252 Fontanella Place, Seattle; Truax Machine and Tool Co., 16 Michigan St., Seattle; Guy F. Atkinson Co., 10 W. Orange Ave., South San Francisco, Calif.; Soule' Steel Co., Box 3685, Terminal Annex, Seattle; Seattle Foundry Co., Inc., 3444 13th Ave. S.W., Seattle; Troy T. Burnham Co., 18666 Beverly Road, Seattle; The Union Iron Works, Box 2135, Spokane; Box 3583, Seattle; M. P. Butler, 3419 13th S.W., Seattle; Dahlgren Construction Co., 1700 21st Ave. S., Seattle; Gate City Steel, Box 1487, Boise, Idaho; University Plumbing and Heating Co., 3941 University Way, Seattle; Atlas Foundry and Machine Co., Box 1606, Tacoma; Industrial Electric Co., 1828 Yale Ave., Seattle; Holert Electric, Inc., 2300 W. Spokane, Seattle; Navarre Plumbing and Heating Co., Inc., 3839 Stone Way, Seattle.

This contract involves construction of steel superstructure with concrete roadways. The steel superstructure will be approximately 2,300' long and will extend from about 350' south of intersection of Eastlake Ave. and Harvard Ave. N., across Eastlake Ave. and the Ship Canal north to the intersection of E. 40th St. and 6th Ave. The bridge will have two decks, the top deck being 116' wide providing for two roadways, each 56' wide with a 4' median strip; and the lower deck 60' wide. The bridge provides for eight lanes of traffic on the top deck and four lanes on the bottom deck.

Quantities: 9,650 c.y. concrete; 2,330,000 lb. steel reinforcing bars; 11,436' aluminum bridge railing; two lump sum bids for structural steel (about 22,492,000 lbs.); lump sum bid for cast steel (about 378,000 lbs.) lump sum for electrical equipment.

Work will begin about three weeks after the contract is awarded and will be completed within 410 working days after starting.

A future contract will provide for construction of reinforced concrete approaches at each end of the bridge. Contract for the seven main reinforced concrete piers is now underway by Scheumann & Johnson, Seattle. The firm received the award on a low bid of $964,291 in August.

DM 12-16. Previous report 11-28

■ STATE HIGHWAY PROJECT—
(Culverts, Siphons)— Olympia, Wash.

Planholders announced on construction of culverts, siphons and irrigation lines for which bids will be opened 10 a.m., December 23, by Washington State Highway Commission, Transportation Bldg., Olympia.

CULVERTS, SIPHONS, Jacobson to Fruitvale Blvd.—Constructing concrete box culverts, concrete siphon boxes, siphons and irrigation lines on 1.83 mi. of PSH No. 5, Yakima County, FAP No. U-018-2(3).

Planholders: Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Lake City Gravel and Materials, Inc., 3215 E. 123rd, Seattle; Soule' Steel Co., Box 3685, Terminal Annex, Seattle; Russell-Gillett Co., Box G, Cle Elum; Hans M. Skov Construction Co., 343 Liberty Bldg., Yakima; Paul L. Wiesner, Box 138, Wenatchee.

DM 12-16. Previous report 12-5

★ROAD IMPROVEMENT, STOCKPILING
(Benton County)— Prosser, Wash.

Award to Leo Lavin, Coulee City, $89,609, by Benton County Commissioners, Courthouse, Prosser, for road improvement and stockpiling, C.R.P. 323, Sellards Road from McKinley Springs Road easterly 0.313 mi.; C.R.P. 329, King Tull Road from P.S.H. 3 to Hinzerling Road; and stockpiling Project No. 59-1.

Other bids received December 11 were: Maurice Gredvig, 508 N. 57th Ave., Yakima, $96,860; Frank G. Baulne, Box 84, Yardley, $101,453; W. R. Sutherland, Wilbur, Wash., $101,765; F. H. DeAtley, 3110 N. & S. Highway, $103,483; Materne Bros., Box 7052, Spokane, $105,115; C. & E. Construction Co., Box 1545, Yakima, $112,997; Dorman Construction Co., 2818 E. 1st, Vancouver, $122,938.

SELLARDS ROAD—Remove rock cliff and straighten road from McKinley Springs easterly .313 mi.

KING TULL ROAD—Grade, drain, surface 3.5 mi. from PSH 3 to Hinzerling Road.

NORTH PROSSER STOCKPILE—Furnish 10,000 tons crushed surface top course and 2,000 tons crushed coverstone.

TRAVIS STOCKPILE—Furnish 5,000 tons crushed surface top course and 10,000 tons crushed surface base.

AM 12-16. Previous report 12-2

▲STATE HIGHWAY PROJECTS—
Olympia, Wash.

Bids were opened December 16 by Washington State Highway Commission, Olympia, on three highway construction projects.

BRIDGES, CLEARING, GRADING, Auburn to Soos Creek — Clearing, draining, grading, constructing two precast prestressed concrete girder bridges, constructing a concrete flat slab bridge and a reinforced concrete girder bridge and fencing on 6.606 mi. of PSH No. 2, King County; FAP No. F-FG-046-1(10).

Eleven bidders. LOW BIDS: Scarsella Bros., Inc., 2207 S. 146th, Seattle, $1,175,350; Erickson Paving Co., 14446 Sunset Highway, Bellevue, $1,219,087; J. J. Welcome Construction Co., Box 641, Redmond, $1,280,993.

BRIDGE, West Approach, Puyallup River—Draining, grading, surfacing, paving with cement concrete and constructing reinforced concrete retaining walls on 0.042 mi. of SSH No. 1-V in Pierce County; FAP No. US-0236(2).

Four bidders, a LOW BIDS: Woodworth & Co., Inc., 1200 E. D St., Tacoma, $81,741; Concrete Construction Co., 2015 Center, Tacoma, $84,427; MacRae Bros., 5900 2nd Ave. S., Seattle, $89,355.

HOOD CANAL BRIDGE, Unit 2, Approach Structures—Construct approach structures for Hood Canal floating bridge, in Kitsap and Jefferson counties, a State Project, under jurisdiction of Washington State Toll Bridge Authority. Contract for the first unit of the project which involved construction of a reinforced concrete floating bridge, was held by Morrison-Knudsen Co., Inc., Hoge Bldg., Seattle; Henry J. Kaiser Co., Oakland, Calif.; Puget Sound Bridge and Dredging Co., 2929 16th S.W., Seattle; General Construction Co., 3840 Iowa, Seattle, a joint venture, $14,226,690.

Eleven bidders. LOW BIDS: General Construction Co., 2840 Iowa, Seattle, $508,855; Paul Jarvis, Inc., 1070 W. Ewing, Seattle, $515,959; Manson Construction and Engineering Co., 5209 E. Marginal Way, Seattle, $516,719. DE 12-17. Previous report 11-28

▲FENCE, SIDEWALKS, DRAINAGE—
Paine AFB, Wash.

Four bids ranging from a low of $9,113 by Sanford Wright, 2929½ Wetmore, Everett, to a high of $13,897, were submitted to the U.S. Air Force, base procurement office, Paine Air Force Base for 1—replacing deteriorated fence, 2—replacing deteriorated steps and sidewalks, 3—replacing area for proper drainage, 4—removing weeds and dead shrubs and replant with shrubs, in the 700 area at the base; Inv. No. 45-602-59-56. Bid opening December 11.

Other bidders were: Lindbrook Construction Co., 11738 36th N.E., Seattle, $9,292; Metropolitan Construction Co., 1008 Broadway, Everett, $10,980; Sprague, Inc., Box 117, Lynnwood, $13,897. Government estimate, $8,700. HH 12-13. Previous report 11-18

▲PAVING— Paine AFB, Wash.

One bid, that of Associated Sand & Gravel Co., 6300 Glenwood, Everett, $7,607, was received by U.S. Air Force, base procurement office, Paine Air Force Base, for repairing Cascade Drive, Nike Circle and Convair St. at the base; Inv. No. 45-602-58-60. Bid opening December 11. Government estimate $6,500.

Work involves patching, reducing crown and correcting profile of old surfaces, application of surface treatments to old and new pavements; preparing subgrade and disposing of unsuitable materials, performing necessary maintenance to existing drainage facilities, installing new catch basin inlet with storm sewer connection, installing new

culvert pipe, painting pedestrian crosswalk markings. HH 12-13. Previous report 11-26

★SIDEWALKS— Paine AFB, Wash.

Contract has been conditionally awarded to Metropolitan Construction Co., 1008 Broadway, Everett, $2,725, by U.S. Air Force, base procurement office, Paine Air Force Base, for preparing subgrade and placing portland cement concrete sidewalk along Commando Road for a distance of about 1,200'; Inv. No. 45-6002-59-58. Bid opening December 2. The order to proceed will not be issued until funds have been received.

HH 12-13. Previous report 11-26

ROAD— Pasco, Wash.

Construction of an entrance road to Port of Pasco property is planned by port commissioners, according to Del Isaacson, manager, Port Dock, Pasco. The new road will be part of 5th Ave. DC 12-17

GRADING— Pasco, Wash.

Bids will be called soon by Port of Pasco, Del Isaacson, manager, Port Dock, Pasco, for leveling one and half blocks of port property. The land will then be leased for industrial use. DC 12-17

■GAUGING STATION— Priest Rapids Dam, Wash.

Planholders announced on construction of cableway gauging station and gauge house for Priest Rapids development on the Columbia River, Wash. Bids will be opened 2 p.m., P.S.T., December 22, by Public Utility District, Grant County, 30 C St. S.W., Ephrata. Plans and specifications with Harza Engineering Co., Chicago Daily News Bldg., 400 W. Madison, Chicago, Ill.

Planholders: Key Construction Co., 1601 Taylor Way, Tacoma; G. M. Grove, Ephrata; Fischback & Moore, Inc., 3201 Fremont, Seattle; W. L. Ridge Construction Co., 3122 E. Sharp, Spokane; Tyee Construction Co., 1901 23rd S., Seattle; Merritt, Chapman & Scott Corp., Box 966, Ephrata; Darnell Construction Co., 415 N. 20th, Lewiston, Idaho; Pettijohn Engineering Co., 4145 N.E. Cully Blvd., Portland, Ore.; McDonald & McGarry Co., Dexter Horton Bldg., Seattle; West Coast Steel Works, Box 2627, Portland. W. H. Gregory, E. 14509 Alki, Spokane; Dan L. Cooney, Inc., 2318 S. Tacoma Way, Tacoma; Cherf Bros., Inc., and Sandkay Contractors, Inc., Box 938, Ephrata; Willar Construction Co., 9709 Greenwood Ave., Seattle; C. M. Corkum Co., Box 789, Portland; R. J. McCarthy Co., 17860 Ballinger Way, Seattle; Steel Construction Co., 5300 N.W. Front Ave., Portland; American Bridge Division of U.S. Steel, 309 S.W. 6th Ave., Portland; Anchor Metals, Inc., Box 148, Hurst, Tex.; Tower Sales and Erecting Co., 6100 N.E. Columbus Blvd., Portland; Isaacson Iron Works, Box 3625, Seattle; Creamer & Dunlap, Box 2265, Tulsa, Okla.

Work includes but is not limited to the following: furnish and erect cableway gauging station towers; furnish and construct cableway footing, anchorages and grounding; furnish, erect, assemble and install cable, cable accessories and equipment; construct gauge house including equipment and accessories; furnish and install staff gate supports. The cable car will be furnished and installed by others.

DM 12-12. Previous report 11-25

●PUMPING PLANT (BuRec)— Quincy, Wash.

Bids will be opened 10 a.m., P.S.T., January 8, by Bureau of Reclamation, Division Ave. and C St. N.W., Ephrata (Box 368) for construction of auxiliary, outdoor type, pumping plant at the Quincy Pumping Plant, Block 73, Columbia Basin Project, in Grant County about eight mi. east of Quincy; Spec. No. 117C-534. Specifications with Ephrata office. Bid bond 10%.

Features of work include: 1—earthwork required for construction of pumping plant, pump discharge line, service yard, O & M access driveway; relocating an existing 6" steel water pipe, 2—construction of a one-unit, outdoor type, auxiliary pumping plant and connecting the pump-discharge manifold to three existing Quincy pumping plant discharge lines, 3—installing one motor-drive, vertical-shaft pumping unit, one motor-operated gate valve and controls, three hand-operated geared gate valves, 2,400-volt motor control equipment; furnishing and installing discharge piping and other pumping-plant materials and equipment, 4—furnishing and installing trashrack, miscellaneous metal work and other materials, 5—furnishing and installing fence and gates, gravel surfacing at the pumping plant site.

Quantities: 130 c.y. structure excavation; 370 c.y. rock excavation; 85 c.y. backfill about structures; 85 c.y. compacting backfill about structures; 5 c.y. gravel surfacing; 100 c.y. concrete; 15 bbl. furnishing and handling cement; 7,000 lb. furnishing and placing reinforcement bars; 17,000 lb. installing one motor-driven, vertical-shaft, turbine type pumping unit; 2,200 lb. installing motor-operated gate valve; 4,300 lb. furnishing, installing trashrack; 970 lb. furnishing and installing miscellaneous metalwork; 74' furnishing, erecting chain link fence; 155' furnishing, installing electrical 3" diameter, rigid metal conduit; 275' same for 1¼"; 17' same for 1"; 185' same for 3.4"; 525' furnishing, installing single-conductor No. 4/0 AWG, 5,000-volt insulated electrical cable; 1,365' same for No. 10 AWG, 600-volt; 950' same for No. 12 AWG, 600-volt; 125 lb. furnishing, installing grounding system; lump sum bids for steel discharge pipe, control equipment, transformers, station service equipment, float switch, lighting fixture and plug receptacle.

Completion times 60 days for pumping plant structure, 110 days for all other work.

DM 12-12

▲PUMPING UNITS— Radar Pumping Plant, Wash.

Five bids were opened December 11 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing five motor-driven, horizontal centrifugal-type pumping units for Radar Pumping Plant; DS-5109. LOW BIDS: American Ligurian Co., Inc., New York, N.Y., $102,000; Remsco Associates, Matawan, N.J., $110,350; Worthington Corp., Harrison, N.J., $116,295. All bids fob Othello, Wash. DM 12-17

●WATERMAINS— Renton, Wash.

Bids will be opened 8 p.m., December 23, by King County Water District No. 58, 17010 Benson Road, Renton, for construction of water system additions in LID No. 14. Specifications with Hill & Ingman, consulting engineers, 3104 Western Ave., Seattle. $2 charge. Certified check 5%.

Quantities: 1,050' of 6" asbestos-cement water main; two 6" gate valves; two fire hydrant assemblies; miscellaneous fittings and connections to existing distribution system. DM 12-13

★STEEL TOWERS (Radio Relay)— Seattle, Wash.

Award to Gate City Steel Co., 4000 Warm Springs Ave., Boise (amount not disclosed) by Pacific Telephone and Telegraph Co., 1200 3rd Ave., Seattle, for construction of four galvanized steel towers at four microwave radio relay stations now being built. Bids were opened December 4.

Specifications call for fabrication, delivery and erection of towers which will support microwave antenna horns needed for cross-state long distance system. Tower locations and their heights are: Hyak, 211'; Kittitas, 148'; Moses Lake, 173'; Ritzville, 248'.

Electrical work and painting will be handled under separate contracts after the towers are erected.

Planholders: Gate City Steel Co., 4000 Warm Springs Ave., Boise; Star Iron and Steel Co., 435 E. 11th, Tacoma; Isaacson Iron Works, 8531 E. Marginal Way, Seattle; Leckenby Structural Steel Co., 2745 11th S.W., Seattle; Bethlehem Pacific Coast Steel Corp., 8501 E. Marginal Way, Seattle.

DM 12-12. Previous report 11-22

★POLE LINE HARDWARE— Seattle, Wash.

Awards announced by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 10,000 washers, and 2,000 steel pins. AWARDS—WASHERS: Line Material industries, 1220 W. Nickerson, Seattle, $4,300; STEEL PINS: Maydwell & Hartzell, 306 Dexter, Seattle, $5,998. PD 12-16. Previous report 12-10

★FENCING (Install)— Seattle, Wash.

Award to Cyclone Fence Dept., 1150 Fairview N., Seattle, $5,026, by Seattle School District No. 1, 815 4th Ave. N., for furnishing and installing cyclone fencing at four Seattle schools—Lake City Elementary, 2611 E. 125th; Summit Elementary, 1415 Summit; Maple Leaf Elementary, 3212 E. 100th, and View Ridge Elementary, 7047 50th N.E. Bids were opened December 4.

AM 12-16. Previous report 12-5

●AIR RAID SIRENS— Seattle, Wash.

Bids will be received until 9:30 a.m., P.S.T., December 22, by King County Commissioners, 402 County-City Bldg., Seattle, for installation of two electric air raid sirens; Req. No. 9675. Specifications with Larry Layton, 606 County City Bldg., Seattle. 5% bid bond. KT 12-17

●WATER METERS— Seattle, Wash.

Bids will be opened 10 a.m., December 31, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 150 cold water meters. Specifications with above office. DM 12-17

●SOLDER, CONDUCTOR WIRE— Seattle, Wash.

Bids will be opened 10 a.m., December 23, by Paul R. Hendricks, city purchasing agent, 511 County City Bldg., Seattle, for furnishing 1—4,000 lb. solder, 2—30,000' of conductor wire. Separate bids on each item. Specifications with above office. DM 12-17

★CRUSHED STONE, PLANTMIX SURFACING— Seattle, Wash.

Awards announced on four separate projects for crushed stone and bituminous plantmix surfacing, by King County Commissioners, 402 County City Bldg., Seattle. Bid opening December 8.

SURFACING, S.E. 236th, River Road to al—Crushed stone surfacing one mi. 236th Ave. S.E. (S.E. 384th to S.E. 400t one mi. on 144th Ave. S.E. (SSH 5-A S.E. 288th) and 1.06 mi. on 284th Ave. S (S.E. 472nd to River Road), King County.

AWARD: Excavators, Inc., 5756 29th Ave. N.E., Seattle, $29,936.

CLEARING, SURFACING, 132nd Ave.—Grading, clearing, draining, crushed stone surfacing 0.81 mi. of 132nd Ave. S.W. (S.E. 240th St. northerly), King County.

AWARD: Anderson & Johnson, 11037 Roosevelt Way, Seattle, $17,413.

PLANTMIX, White Center-Burien Area—Bituminous surfacing 2.94 mi. on roads in Road District No. 2, White Center-Burien Area, King County.

AWARD: Washington Asphalt Co., 309 W. 39th, Seattle, $40,400.

PLANTMIX, Meridian Ave., W. 175th—Bituminous plantmix surfacing on 1.5 mi. of Meridian Ave., (N. 175th St. to N. 205th St.) and 0.83 mi. W. 175th St. (10th Ave. N.W. to Dayton Ave.), King County.

AWARD: Washington Asphalt Co., 309 W. 39th, Seattle, $32,850.

AM 12-17. Previous report 12-9

▲UNIT SUBSTATION— Tacoma, Wash.

Bids were opened December 15 by Department of Public Utilities, second floor, Utilities Bldg., Tacoma, for furnishing one double-ended unit substation.

LOW BIDS—Federal Pacific Co., Scranton, Penn., $151,645; Allis-Chalmers Electric Motors, White-Henry-Stuart Bldg., Seattle, $154,466; Westinghouse Electric Motors, 3451 E. Marginal Way, Seattle, $156,106.

AM 12-16. Previous report 11-20

▲STORM TRUNK, GRADING— Tacoma, Wash.

Bids were opened December 15 by city clerk, 305 City Hall, Tacoma, for construction of about 12,500' of storm drains (Imprv. No. 1981) and for 1.1 mi. of grading and oil mat surfacing (Imprv. No. 2286) in the Arlington District.

The following low bids are for storm trunk, grading and oil mat surfacing: Woodworth Construction Co., 1200 E. D St., Tacoma, $472,031; Milone-Tucci Construction Co., 2815

S. Lawrence, Tacoma, $472,733; Murphy Bros., 18537 29th N. E., Seattle, $480,152.
AM 12-16. Previous report 12-9

▲WATER MAIN— Tacoma, Wash.

Bids were opened December 15 by Department of Public Utilities, second floor Utilities Bldg., Tacoma, for construction of a 6" cast iron water main in LID No. 5302.

LOW BIDS—Rogers Construction Co., 3408 S. Union, Tacoma, $5,926; Eltrich Bros., 3003 N. 7th, Tacoma, $6,418; Paine, Gallucci Inc., 1521 S. Grant, Tacoma, $6,800.
AM 12-16. Previous report 12-10

★FLAGPOLE (GSA)— Tacoma, Wash.

Award to Doug Pravitz Contractor, Inc., 2301 Lincoln, Tacoma, $1,591, by General Services Administration, 909 1st Ave., Seattle, for removing existing roof flagpole and board walk and erecting new metal ground flagpole and concrete sidewalks at U.S. Post Office; Custom House and Courthouse in Tacoma; Proj. SEA-1253. Bid opening December 4. AM 12-17. Previous report 11-15

★WHEEL TRACTORS— Vancouver, Wash.

Award to Geisler Tractor Co., 9333 N.E. Pacific Highway, Vancouver, $5,604 (water department), and $5,659 (cemetery department), by R. E. Moisant, city purchasing agent, 712 Washington St., Vancouver, for furnishing two backhoe loader wheel type combination tractors, with cabs. Above prices include tax. Four other bids, one of which did not meet specifications, were received December 3.
WB 12-13. Previous report 11-28

● INSTRUMENT TRANSFORMERS (BPA)— Vancouver, Wash.

Bids will be opened 1 p.m., P.S.T., December 30, by Bonneville Power Administration, Box 3573, Portland, Ore., for eight outdoor current transformers; Inv. No. 8911. Plans with Portland office.

Three current transformers, outdoor, 550 kv and three current transformers, outdoor, 110 kv, fob Eavan Spur, Vancouver, or bidder's shipping point; two current transformers, outdoor, 110 kv, fob Covington, Wash., or bidder's shipping point. KT 12-17

● SNOW TRACTOR, TRAILER— Vancouver, Wash.

Bids will be opened 2 p.m., P.S.T., December 29, by Bonneville Power Administration, Box 3573, Portland, Ore., for snow tractor and trailer; Inv. No. 8913. Plans with Portland office.

Snow tractor, crawler driven, and skimounted trailer suitable for use with tractor, fob Eavan Spur, Vancouver, Wash. KT 12-17

● FENCE— Wenatchee, Wash.

Bids will be opened 7:30 p.m., January 5, by City Council, City Hall, Wenatchee, for 1—furnishing and installing a class D fence along the access road, 2—relocating an existing class E fence and constructing a new class E fence at the administration area, Pangborn Field, Wenatchee. Specifications with city engineer, Public Works Bldg., Worthen St., Wenatchee. $20 deposit.

Quantities: 700' of class E chain link fence; two chain link driveway gates; two walk gates; 400' relocate existing class E chain fence; 1,550' of class D fence.
DC 12-17

LEWIS RIVER DREDGING— Woodland, Wash.

Watters Concrete Products Co., 135 N. 6th St. Helens, Ore. has applied to Corps of Engineers, 730 Pittock Block, Portland for permission to dredge in the Lewis River, downstream from Woodland, Wash.

Site of proposed work is between low water lines from the river mouth to Highway 99 bridge. Material removed will be used for commercial purposes.

Letters concerning the effect of the work on navigation may be received until January 5 by Col. Walter L. Winegar, Portland District Engineer, 628 Pittock Block, Portland. KT 12-13

▲BEACON, LIGHTS (13th Coast Guard)— Willapa Bay, Wash.

Three bids ranging from a low of $15,000 by Jack Fast, 22 Etruria, Seattle, to a high of $16,949, were submitted to 13th Coast Guard District, Room 922, 618 2nd Ave., Seattle, for relocation of the Willapa Bay light and radio beacon near North Cove; Bid No. FS-1870. Bids opened December 15.

2ND LOW: Grays Harbor Construction Co., Box 743, Aberdeen, $16,939. HI: Pacific Coast Co., Box 577, Anacortes, $16,949.
PD 12-17. Previous report 12-3

IDAHO

▲EROSION PROTECTION— Albeni Falls, Idaho

Bids were opened December 11 by Corps of Engineers, 1519 S. Alaskan Way, Seattle, Wash., for erosion protection work tracts M1363E and M1364E, Albeni Falls reservoir, Pend Oreille River, Idaho; CIVENG-45-108-59-16.

The following two bids were received: Romero Bros., Newport, Wash., $4,637; Kenmore Marina, Inc., Sandpoint, Idaho, $6,937.

Work consists of foundation preparation and placing approximately 250 c.y. of sand and gravel fill and approximately 250 c.y. riprap protection along the shore of Pend Oreille Lake at the Bistline and Lyons properties. The project is located in Section 34, T474N, R2W, about two mi. west of the Lake Bridge on U.S. Highway No. 10.
DM 12-12. Previous report 12-11

★STATE HIGHWAY PROJECT— Boise, Idaho

Award announced by Idaho Department of Highways, 603 Main St., Boise, for the following project on which bids were opened December 2.

BRIDGES, Snake River-Raft River—Constructing one concrete underpass, two concrete bridges and four concrete overpasses on Interstate Highways 15W and 80N, Cassia County; FAP Nos. I-15W-5(3)118, I-80N-3(4)-214.

AWARD: Lonnie E. Smith Construction Co., Twin Falls, $521,601.
AM 12-12. Previous report 12-4

●■ DEMINERALIZATION PLANT (AEC)— Idaho Falls, Idaho

(Estimated cost $40,000)

Bids will be opened 3 p.m., M.S.T., December 30 by Atomic Energy Commission, Idaho Operations Office, Box 1221, Idaho Falls, for construction of a demineralization plant in the ANP area at National Reactor Testing Station in Idaho; Inv. No. AT (10-1)-996. Plans with above office. Bid guarantee 10%.

Prospective bidders should arrange to be on hand at the area engineer's office located outside the main gate to the ANP area by not later than 1 p.m., on either December 19 or December 22 for prebid visit to site.

Planholders—Arrington Construction Co., Box 881, Idaho Falls; Wadsworth Construction Co., Inc., 804 Saturn Ave., Idaho Falls; James Stewart Co., 411 N. Central Ave., Phoenix, Arizona; Watkins Construction Co., Box 1786, Boise; Wallace Process Piping Co., Inc., Box 4027, S. Broadway Station, Denver, Colo.; Girdler Construction Division, Box 174, Louisville, Ky.; Teller Construction Co., Box 435, Idaho Falls; AEC Engineering and Construction Co., Box 1005, Idaho Falls; Bumstead-Woolford Co., 1411 4th Ave., Seattle, Wash.; Manco Construction Co., 3754 Long Beach Blvd., Long Beach, Calif.; Technicon, Inc., Box 776, Davenport, Iowa; Hahn & Clay, 5100 Clinton Drive, Houston, Tex.; General American Transportation Corp., Box 97, Orem, Utah; Diversified Builders, Inc., 6855 Rosecrans Blvd., Paramount, Calif.; Farnsworth & Chambers Co., Inc., Box 74, Houston, Tex.; Wade Construction Co., 2495 Alden St., Salt Lake City, Utah; The Refinery Engineering Co., 405½ W. Broadway, Farmington, New Mexico; Davis Construction Co., Box 854, Idaho Falls; Weyher Construction Co., Box 628, Salt Lake City, Utah; Stearns-Roger Manufacturing Co., 6364 Avon St., San Gabriel, Calif.

Fidelity Alarm Service, Box 644, Burley; Colorite Inc., 155 W. Patterson, Ogden, Utah; Chastain Bros., Construction Co., 1435 N. Yellowstone Ave., Idaho Falls; Bingham Plumbing and Heating Co., Box 557, Idaho Falls; C-L Electric Co., 410 S. Main, Pocatello; Industrial Contractors Co., Box 42, Idaho Falls; Minneapolis-Honeywell, 541 2nd St., Idaho Falls; Fiberglas Engineering and Supply, 336 S. 3rd W., Salt Lake City, Utah; Contro. Systems, Inc., Box 2204, Salt Lake City, Utah; Gem State Electric Co., 237 Cliff St., Idaho Falls; Detweiler Bros., Inc., Box 870, Twin Falls; Self Manufacturing Co., 247 3rd Ave. S., Twin Falls; Superior Engineering Sales Co., 3185 Lincoln Ave., Ogden, Utah; Bannock Steel Co., Box 669, Pocatello; The Colorado Fuel and Iron Corp., Box 1738, Salt Lake City, Utah; Landes, Zacharv & Peterson Co., 2501 S. State, Salt Lake City, Utah; L. H. Butcher Co., Box 1136, Salt Lake City, Utah.

Olympic Welding Co., 3301 1st Ave. S., Seattle; American District Telegraph Co., 321 Walker Bank Bldg., Salt Lake City, Utah; G. M. Wallace Co., Denham Bldg., Denver, Colo.; Babbitt Electric and Refrigeration Co., Box 857, Idaho Falls; Interstate Electric Co., Inc., 540 W. 7th S., Salt Lake City, Utah; General Steel Erectors, Inc., Box 822, Caldwell; Anderson Burke Corp., 10662 N.E. 8th, Bellevue, Wash.; Foster Sheet Metal, Box 244, Kennewick, Wash.; Tri-City Painters, Inc., Box 232, Richland, Wash.; Frohr & Co., 3920 6th N.W., Seattle, Wash.; Fonnesbeck Electric, 180 1st St., Idaho Falls; Titan Steel Corp., Box 1256, Salt Lake City, Utah; American Pipe and Construction Co., 518 N.E. Columbia Blvd., Portland, Ore.; H. G. Pangborn Corp., 1005 E. 12th St., Idaho Falls; Larsen & Co., 361 W. 4th S., Salt Lake City, Utah; Montgomery Electric Co., 2375 N.W. Thurman, Portland, Ore.; Chicago Bridge and Iron Co., 550 W. 17th S. Salt Lake City, Utah; Bonngberg & Wehrheim Electric Co., 700 S. Main, Las Vegas, Nev.; The Lang Co., 267 W. 1st S., Salt Lake City, Utah.

W. P. Fuller Co., Box 977, Idaho Falls; Bullough Asbestos Supply Co., 764 W. 2nd S., Salt Lake City, Utah; Mountain States Industries, 3262 Wolff St., Denver, Colo.; Hammond Iron Works, Box 310, Provo, Utah; Idaho Falls, Electric Co., Box 900, Idaho Falls; Wasco Manufacturing Corp., 212 N. 16th, Boise, Idaho; CDC Control Services Inc., 400 S. Warminster Road, Harboro, Pa.; Almond Electric Co., Inc., Box 11674, Dallas, Tex.; Killian Plumbing and Heating, Box 746, Pocatello; Chem-Pure Service Co., 760 Industrial Road, San Carlos, Calif.; Heating and Air Conditioning Co., 1615 N. 2nd, Pocatello; Pacific Coast Engineering Co., P. O. Drawer E., Alameda, Calif.; Yuba Manufacturing Division, 701 E. H St., Benicia, Calif.; William E. Wait, 911 Cutright St., Chillicothe, Ill.; Independent Iron Works, Inc., 8th and Pine, Oakland, Calif.; O. G. Kelley & Co., 98 Taylor St., Boston, Mass.; Cobusco Steel Products, 660 W. S. Temple; University Plumbing and Heating Co., 3941 University Way, Seattle, Wash.; Industrial Insulations Co., 726 S. 3rd W., Salt Lake City, Utah; National Automatic Sprinkler Co., Box 4504, Portland, Ore.

Work will involve: a—installation of a pool water purification system consisting of a mechanical filter, recirculation pump, deionizer with necessary wiring, piping, control and instrumentation, covered by a reinforced concrete building, b—construction of an enclosed reinforced concrete or block walkway, c—installation of a new bulk acid storage tank, transfer pump and piping, modifications to an existing bulk caustic storage tank pumping system, d—construction of a temporary security fence.
DM 12-16. Previous report 11-20

●REACTOR, RESIDUE HANDLING FACILITY (AEC)— Idaho Falls, Idaho

(Estimated cost $65,000)

Bids will be opened 3 p.m., M.S.T., December 30, by Atomic Energy Commission, Idaho Operations Office, 550 2nd St., Idaho Falls, for construction of fast source reactor facility at ERB I area and for residue handling building at OMRE area, at the National Reactor Testing Station in Idaho; Inv. No. AT(10-1)-1003. Plans with above office. Bid guarantee 10%. Completion time 120 calendar days.

The fast source reactor facility includes a prefabricated metal building about 32'x35' in size with an eave height of 20'. Features include concrete floor slab and foundation;

high-density concrete reactor shield; three-ton bridge crane; oil-fired furnace with 1,000 gal. storage tank; exhaust system; electrical lighting and power services.

The residue handling building includes a prefabricated metal building addition (lean to) 12'x20', with an eave height of approximately 10'. Work includes construction of concrete footings for building addition round an existing floor slab.

Technical inquiries should be directed to Tom L. Ashton, Idaho operations office, Box 1221, Idaho Falls.

Planholders—Watkins Construction Co., Box 1786, Boise; Teller Construction Co., Box 2282, Idaho Falls; AEC Engineering and Construction Co., Box 1005, Idaho Falls; Shaw & Estes, Inc., Box 2399, Dallas, Tex.; Technical Constructors, Inc., Box 2488, Dallas, Tex.; Arrington Construction Co., Inc., Box 881, Idaho Falls; Wadsworth Construction Co., Inc., 804 Saturn Ave., Idaho Falls; Technicon, Inc., Box 776, Davenport, Iowa; Wallace Process Piping Co., Inc., Box 4027, S. Broadway Station, Denver, Colo.; Ets-Hokin & Galvan, 218 N. Avalon Blvd., Wilmington, Calif.; W. R. Cahoon Construction Co., Box 149, Pocatello.

DM 12-16. Previous report 12-4

SURFACING— Idaho Falls, Idaho

Surfacing seven miles of county line road is planned by the Bonneville County Commissioners, Courthouse, Idaho Falls, and Jefferson County Commissioners, Courthouse, Rigby. Contract award will be made next summer, with work to begin in the fall, and completed in the summer of 1960.

AC 12-12

IRRIGATION— King Hill, Idaho

Voters rejected a $170,000 bond issue to replace wooden stave pipe with steel pipe at Head-End siphon and Deer Gulch siphon for the King Hill Irrigation district.

AC 12-12

★DEEP WELLS— Power County, Idaho

Award to Shotwell's Utility Service Co., 152 2nd Ave. N., Twin Falls, Idaho, $22,637, by Bureau of Reclamation, Box 937, Boise, for rehabilitation work for 11 deep wells in the vicinity of American Falls, Power County, Michaud Flats Project, Idaho; Spec. No. 100C-347. Bid opening November 18. Completion time 120 calendar days.

Items of work: (1) preparation of sites, (2) installing equipment, furnishing miscellaneous electrical materials for complete electrical installation including transformer, motor - control equipment, station - service equipment, conduit systems, grounding system at nine well sites, (3) electrical installation at Well K, (4) electrical installation at Well 7, (5) 13 c.y. concrete in nine motor-control foundations, 24 c.y. concrete in nine pump foundations, install transformer pole-to-ground guy and anchor.

AM 12-13. Previous report 10-22

MONTANA

★DRIVEWAY, RAMP— Billings, Mont.

Award to Hitz Construction Co., 2111 4th Ave. N., Billings, $11,776, by Yellowstone County Commissioners, Courthouse, Billings, for construction of a driveway and ramp leading across the site of the old courthouse into the basement of the new structure.

Other bidders were: Cop Const. Co., $19,250; Flynn, $22,500; Hardy Const. Co., 420 N. 25th St., Billings, $18,230; Frates, $15,800; and Clark, $15,267.

EE 12-17

▲WATER WELL (Drilling)—Boulder, Mont.

Two bids were received by State Board of Examiners, State Capitol Bldg., Helena, for drilling a well to supply water to the State Training School (for deaf and blind) at Boulder. Bid opening December 11. BIDS: Price, Lindsay, Clancy, Mont., $1,925; A & B Drilling Co., Scobey, Mont., $2,980.

LS 12-16. Previous report 11-11

●GATE VALVES (Furnish)— Browning, Mont.

Bids will be received until 2 p.m., M.S.T., January 20 by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering fob cars at Browning two 4'x5' high-pressure gate valves with hydraulic hoists for outlet works at Sherburne Lakes Dam, Milk River Project, Mont.; Inv. No. DS-5131. Delivery to be within 180 days after date of contract award.

KT 12-12

●TELEPHONE FACILITIES—Circle, Mont.

Bids will be opened 11 a.m., M.S.T., January 27, in office of the Mid-Rivers Telephone Cooperative, Inc., Circle, for construction of 184.12 mi. of outside telephone facilities in Custer and Fallon counties. Specifications available from the engineers, Associated Engineers, Inc., 1127 Alderson Ave., Billings. $10 charge.

Construction includes 93.3 mi. pole line with open wire (58.2 mi. 1 circuit, 20.8 mi. 2 circuits, 7.5 mi. 3 circuits, 1.3 mi. 4 circuits, 5.5 mi. 6 circuits); .20 mi. pole line with multipair distribution wire, 6 pairs; 1.52 mi. pole line with aerial cable-plastic (.78 mi. 12 pairs, .23 mi. 18 pairs, .19 mi. 25 pairs, .08 mi. 50 pairs, .04 mi. 75 pairs); 85.4 mi. joint use-electric, 1 circuit; 3.9 mi. service drops—all types.

RM 12-16

★POWER PLANT, SWITCHYARD— Fort Peck, Mont.

Award to Western Paving Construction Co., Denver, Colo., and Eagle Construction Corp., Box 181, Loveland, Colo., joint venture, $6,300,742, by Corps of Engineers, Garrison District, Fort Peck, for construction of powerhouse and switchyard for a second power plant on Missouri River at the Fort Peck Power Plant, about 20 mi. southeast of Glasgow, McCone County, Mont.; CIVENG-32-015-59-4. Bid opening November 20. Government estimate $5,376,457.

Principal features of work involve: unwatering and removal of cofferdam; reinforced concrete; structural steel and miscellaneous metal work; building construction; mechanical systems and hoists; installation of Government-furnished equipment; electrical work; switchyards and overhead lines; modifications to existing powerhouse; miscellaneous work; painting.

EE 12-16. Previous report 11-22

●SUBSTATION— Fort Peck, Mont.

Bids will be opened for the second time 10 a.m., M.S.T., January 6 by Bureau of Reclamation, R. W. Faus, acting constructing engineer, Box 866, Glendive, Mont., for construction of Stage 01 additions to Dawson County substation at Fort Peck project near Glendive, Dawson County, Mont.; Spec. No. DC-5116. Bids were previously opened and rejeceted on December 4. Low bid was Bell Electric Co., Cactus, Arizona, $194,755.

Quantities: 15,000 c.y. excavation for addition; 660' excavation for auger-type foundations; 1,100 c.y. structure excavation except for above; 1,000 c.y. backfill; 1,000 c.y. compacting backfill; 11,000 c.y. compacting embankments; 600' sand backfill and timber protection for buried insulated electrical cables; 110 c.y. furnishing, placing gravel for gravel fills; 1,700 c.y. gravel surfacing; 10 c.y. riprap; 15,000 sq. yd. treating areas with sterilization chemicals; 170' furnishing, laying 8", No. 16 gauge, corrugated metal pipe culverts; 425' furnishing, laying 4" clay lines tile drain; 720 bbl. furnishing, handling cement; 45,000 lb. furnishing, placing reinforcement bars and fabric; 505 c.y. concrete; 700 insulating intersections of reinforcement bars; lump sum for addition to service building; 160,000 lb. furnishing, erecting steel structures; 5,100 lb. aluminum covers; 900 lb. miscellaneous metalwork; 89 signs; 14 single and double-switch-operating platforms; erecting 1,400' chain link fencing; 28,200 gal. filtering insulating oil; 4,300' bare copper cable for grounding; 940' electrical rigid metal conduit; assemblies, Detail C; 24,360', 600-volt insulated wires, cables; three autotransformers; six reactors; six breakers; two transformers; switches; traps; arrestors; panelboard; 95' removing, cutting 4" wrought iron tubular bus; remove, reinstall three terminals; 1,730' aluminum bus; 3,900' aluminum cable strain buses; 25' copper cable strain buses; 525' steel cable for overhead ground wires; fixtures.

KT 12-12. Previous report 12-5

TELEPHONE FACILITIES— Forsyth, Mont.

R.E.A. loan for $637,000 approved by Range Telephone Cooperative, Fred L. McAdams, manager, Forysth, Mont., to improve and extend rural telephone service in Big Horn County, Mont., and in Sheridan County, Wyo. The construction schedule includes 657 mi. of new line, and new dial central offices at Clearmont and Wyotana, Wyo.

WB 12-12

WATER SYSTEM— Kalispell, Mont.

(Estimated cost $400,000 to $500,000)

The Evergreen Rural Water District, Route 1, Kalispell, has retained Clark & Groff, consulting engineers, 3240 Triangle Drive, Salem, Ore., to prepare plans for engineering work on a proposed domestic water system in the suburban area northeast of Kalispell.

An application has been submitted to the Federal Housing and Home Finance Agency by the water district, for a $14,000 planning loan. Preliminary estimate on the total cost of the water system, including deep well, reservoir, pumping plant and distribution system is $400,000 to $500,000.

RB 12-16. Previous report 11-25

WATER SYSTEM— Kalispell, Mont.

State park director, Ashley Roberts, has announced that the park budget to be presented to the Montana legislature will include $2,500 to provide a deep well and water system at Lone Pine State Park, southwestern edge of the city of Kalispell.

RB 12-17

▲AMMUNITION STORAGE MODIFICATION—Malmstrom AFB, Mont.

Four bids received by procurement office, Malmstrom Air Force Base, for modifying ammunition storage for air defense. Bids: Rowe Electric, 410 1st S., $7,373; Rainbow Electric, 2220 River Drive, $8,154; Cascade Electric, 903 10th N., $8,290; Goggans & Pennie, 1106 Central, $8,892. All of Great Falls. Government estimate, $11,000.

KC 12-12

ALASKA

●LIGHTS, BARRIERS (Airport)— Elmendorf AFB, Alaska

Bid opening has been cancelled for threshold lights and barrier modification at Elmendorf Air Force Base; ENG-95-507-59-3. Bids were to have been opened 2 p.m., A.S.T., December 23, by Corps of Engineers, Box 7002, Anchorage. Plans are indefinite on calling bids again.

DM 12-12. Previous report 12-4

AERIAL ELECTRICAL DISTRIBUTION SYSTEM— Ladd AFB, Alaska

Bids were rejected and will not be called again, for extension of the base utilities system involving installation of an aerial electrical distribution system to Birch Hall, Ladd Air Force Base; IFB-65-500-59-45, by base procurement office, Ladd Air Force Base, Fairbanks.

Project involves extension of 7.2-12-57 kv line from POL road to and including H-frame; installation of five government-furnished transformers; installation of poles for two wire 7.2 kv single phase line up hill; installation of single phase primary 7.2 kv power line including wire and hardware.

AM 12-16. Previous report 10-15

NORTHERN CALIFORNIA

★FLOOD CONTROL GATES, LEVEE— Agnew, Calif.

Award to Ora E. Elliott, 8931 Elrod Drive, Castro Valley, $23,861, by State Department of Public Works, Administration Bldg., 827 7th, Sacramento, for constructing new flood control gates, compacted earth levee work,

and related work, at Agnews State Hospital, Agnew. RM 12-20

●PLANTMIX SURFACING, CURBS, SIDEWALKS— Daly City, Calif.

Bids will be received until 5 p.m., and opened at 8 p.m., December 22, by City Council, City Hall, 75 Wellington Ave., Daly City, for improvement of Thiers St. and Florence St. in Daly City. Specs with city engineer, 134 Hillside Boulevard, Daly City. $15 deposit. Completion time 40 calendar days. Quantities: 822' of 12", 115' of 10" reinforced concrete pipe; 2,280 c.y. excavation; 322 ton plantmix surfacing; 512 c.y. crusher run base course; 3 ton prime coat; 1,206' concrete curb and gutter; 3,506 sq. ft. concrete sidewalk; 2,850 sq. ft. trench resurfacing; 2,027 c.y. borrow. RM 12-20

▲IRRIGATION PIPELINE— Fairfield, Calif.

Six bids were received by the Solano Irrigation District, Fairfield, for construction of the second unit of the District's project, involving about 17 mi. of irrigation pipeline north and west of Dixon. Martin Brothers, Inc., 2525 Concord Ave., Concord, submitted the apparent low bid of $671,340. Engineer's estimate $804,706. RC 12-20

●RUNWAY PRIMARY STRENGTHENING— McClellan AFB, Calif.

Bids will be opened 2 p.m., January 9, by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for construction of runway primary strengthening and facilities, McClellan Air Force Base, Sacramento County; ENG-04-167-59-17. Work involves removing existing pavements; excavating and constructing embankments; subsealing pavement; constructing portland cement and asphaltic concrete pavements; drainage systems; modifying runway lighting system; striping and marking; installing government-furnished runway overrun barrier; seeding shoulders and scarred areas. Specs with above office. Bid bond 20%.

Quantities: 116,000 c.y. excavation; 57,000 c.y. embankment; 125 ton asphalt membrane pumping; 900 c.y. subbase course; 43,500 c.y. base course; 5,000 ton stabilized aggregate base course; 50 ton liquid asphalt, MC-1 prime coat; 680 ton asphalt cement, 85-100 penetration; 11,000 ton asphaltic concrete surfacing; 50 ton emulsified asphalt, RS-1; 57,000 c.y. portland cement concrete pavement; 85,500 bbl. portland cement; 860' of 8'x6', 2,220' of 6'x4', 475' of 5'x4' reinforced concrete box culvert; 665' reinforced concrete pipe; 270' of 30", 500' of 42" drainage pipe; 30' of 72" corrugated metal pipe, bituminous coated, No. 12 gauge; 165' of 6" vitrified clay pipe drain; 18,190' type II duct; 4,620' type I duct; 420' bare copper wire; 59,000' No. 8 A.W.G. 5 kv cable. RM 12-20

●HANGAR ACCESS APRON, TAXIWAY, UTILITIES— McClellan AFB, Calif.

Bids will be opened 2 p.m., January 23, by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for construction of hangar access apron and taxiway, associated utilities, and flight test hangar, McClellan Air Force Base, Sacramento County; ENG-04-167-59-27. Specifications with above address. Bid bond 20%. Completion time 365 days.

Quantities: 220 c.y. class C concrete fill; 100,300 c.y. excavation; 51,500 c.y. embankment; 9,300 c.y. select fill; 2,330' storm drain pipe, 12" to 30"; 670' corrugated iron storm sewer pipe; 2,600 c.y. select material subbase course; 31,000 c.y. base course; 7,700 ton stabilized aggregate base course; 12,200 c.y. portland cement concrete pavement; 18,300 bbl. portland cement; 30 ton liquid asphalt, MC-1, prime coat; 160 ton asphaltic cement, 85-100 penetration; 2,700 ton asphaltic concrete surfacing; 1 ton emulsified asphalt, RS-1 tack coat; 5,900 sq. ft. striping and marking. RM 12-20

▲GATES, VALVES, BRIDGE STEEL— Placerville, Calif.

Bids received December 11 by Sacramento Municipal Utility District, purchasing department, 1708 59th St., Sacramento, for two 40'x14' radial spillway gates, gate hoists, 42" outlet regulating valve, and spillway bridge steel for Ice House Dam, Upper American River Project, near Placerville, El Dorado County; Inv. No. 2111. LOW BIDS—GATES: Moore Dry Dock Co., Foot of Adeline St., Oakland, $34,999; Consolidated Western Steel, Division, U. S. Steel Corp., 120 Montgomery St., San Francisco, $35,280; Yuba Consolidated Industries, Inc., 351 California St., San Francisco, $35,287. HOISTS: Monarch Forge and Machine Works, 2130 N.W. York, Portland, Ore., $17,920; Cyclops Iron Works, 837-47 Folsom, San Francisco, $19,792; D. J. Murray Manufacturing Co., $20,800. VALVE: Yuba Consolidated Industries, $27,180; S. Morgan Smith Co., 68 Post, San Francisco, $39,625; Baldwin-Lima-Hamilton Corp., $44,530. STEEL: Herrick Iron Works, Box 3007, Hayward, $6,087; Independent Iron Works, 8th and Pine, Oakland, $6,569; Yuba Consolidated Industries, $6,624. PB 12-20. Previous report 11-22

▲BRIDGE, BITUMINOUS SURFACING— Redding, Calif.

Eight bids received December 9 by Bureau of Reclamation, Box 247, Lewiston, for earthwork, structures, and surfacing, relocations of Trinity County roads, Stoney Creek to Ridgeville, near Redding, Trinity County, Calif.; Spec. No. DC-5119. Work involves construction of roadway and structures for 5 mi.; reinforced concrete bridge over Mule Creek; 5 mi. bituminous surface treatment. LOW BIDS: Sierra Construction Co., Box 983, Merced, $815,237; M. W. Brown, Box 827, Redding, $907,929; J. H. Trisdale, Inc., Box 779, Redding, $963,157. Engineer's estimate, $988,051. RM 12-20. Previous report 11-8

●REINFORCED CONCRETE CULVERT— Redding, Calif.

Bids will be opened 10 a.m., January 5, by City Council, City Hall, 1313 Market St., Redding, for construction of 120' of reinforced concrete double box culvert with wingwalls in Calaboose Creek under the A.C.I.D. canal, Redding. Specs with the Department of Public Works, 1326 Shasta St., Redding. $15 deposit. RM 12-20

●FIXED-WHEEL GATE— Redding, Calif.

Bids will be opened 2 p.m., M.S.T., January 22, by Bureau of Reclamation, Bldg. 53, Denver Federal Center, Denver, Colo., for furnishing and delivering (fob shipping point or Redding) one 10'x20' fixed-wheel gate for outlet works at Trinity Dam, Trinity River Division, Central Valley Project; Inv. No. DS-5132. Specs with above office. Delivery time 360 calendar days. RM 12-20

★WATER WELLS (Testing)— Sacramento, Calif.

Award to Hatch Drilling Co., Box 473, Half Moon Bay, $47,120, by State Department of Water Resources, 401 Public Works Bldg., 1120 N St., Sacramento, for testing existing water wells in Fremont and Alameda counties; Spec. 58-31. PB 12-20. Previous report 12-13

▲SIDEWALKS, PAVING, SEWERS, WATER DISTRIBUTION SYSTEM— Sacramento, Calif.

Bids received December 11 by City Council, City Hall, Sacramento, for improvement of Meadowview Village Unit No. 2 subdivision involving grading, curbs and gutters, sidewalks, asphaltic concrete paving, sewers, and water distribution system, Sacramento; Res. 3295. LOW BIDS: McGillivray Construction Co., 65th and Folsom Blvd., Sacramento, $187,342; A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $188,632; Brighton Sand and Gravel Co., Box 1, Perkins, $190,377. PB 12-20. Previous report 11-29

★STATE HIGHWAY PROJECTS— Sacramento, Calif.

Awards announced by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects for which bids were opened November 26.

IV-SM,ALA-107, MLP,B,FMT,NWK — Install metal plate guard railing, realign existing curve by grading, plantmix surfacing, between Menlo Park and Newark, San Mateo and Alameda counties. AWARD: Williams Bros., 33753 10th St., Decoto, $25,043.

IV-SCR-56-SCR,B — Plantmix surfacing over existing surfacing, installing underdrains between Branciforte Ave. and west city limits in Santa Cruz, Santa Cruz County. AWARD: Granite Construction Co., Box 900, Watsonville, $20,400. PB 12-20. Previous report 11-8

★STREET IMPROVEMENT— Sacramento, Calif.

Award to A. Teichert and Son, Inc., 1931 Stockton Blvd., Sacramento, $13,715, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for improvement of Calvert Ave., Sacramento County. Engineers: Packard, Muir and Train, 3260 J St., Sacramento. PB 12-20

★SEWAGE LIFT STATION, FORCE MAIN— Sacramento, Calif.

Award to Granite Construction Co., Box 900, Watsonville, $110,229, by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for construction of sewage lift station (including equipment, access road, fence), sewage force main and trunk sewer lines, Bradshaw Road Sewer Assessment District, Sacramento County. Engineer: Joseph Spink, 907 5th St., Sacramento. PB 12-20. Previous report 12-6

●WATER DISTRIBUTION SYSTEM— Sacramento, Calif.

(Estimated cost $24,800)

Bids will be received at 5 p.m. and opened at 8 p.m., December 30, by City Council, City Hall, Sacramento, for construction of water distribution system, 29th Ave., Franklin Blvd., city farms, Sacramento; Res. 3278. Specs with above address. PB 12-20

▲STATE HIGHWAY PROJECTS— Sacramento, Calif.

Bids received December 17 by California Division of Highways, 510 Public Works Bldg., Sacramento, on the following highway construction projects.

III-YOL-50-F—Construct bridge approach by grading, plantmix surfacing on cement treated base, construct welded steel girder and reinforced concrete deck bridge, 0.3 mi., between west end of I St. bridge across Sacramento River and 3rd St. in Broderick, Yolo County.

LOW BIDS: Stolte, Inc., 8451 San Leandro St., Oakland, $344,451; Gordon H. Ball and Gordon H. Ball, Inc., 300 Camille Ave., Danville, $346,390; Lord & Bishop, Inc., Box 812, Sacramento, $347,877.

IV-SM-68-SM—Grade, plantmix surface on untreated base, 770' of two-lane road and 560' of one-lane ramps, at Norfolk St. connection to E. Hillsdale Blvd. interchange in San Mateo, San Mateo County.

LOW BIDS: Berger Coast Wide Construction Co., 765 Bayshore Blvd., San Carlos, $47,964; Bragato Paving Co., 500 Bragato Rd., Belmont, $49,963; C. J. Wood, Inc., Box 203, Redwood City, $51,253. PB 12-20. Previous report 12-6

▲BRIDGE (Redecking)— Sacramento, Calif.

Bids received December 17 by Sacramento County Board of Supervisors, 827 7th St., Sacramento, for redecking Cosumnes River bridge at Michigan Bar, Sacramento County.

LOW BIDS: Wm. B. Willett Co., 2668 El Prado Way, Sacramento, $14,351; J. Bailey Builders, Inc., Box 148, Woodland, $15,357; Power-Mullin Construction Co., 2553 Park Blvd., Palo Alto, $16,847. PB 12-20. Previous report 12-13

●DEVELOPING CEMETERY— San Bruno, Calif.

Bids will be opened 2 p.m., December 22, by Corps of Engineers, room 300, 180 New Montgomery St., San Francisco, for construction for development of the northwest leg of cemetery (excluding the additive items) and for construction of additive items, if accepted, in northeast and northwest leg of cemetery, Golden Gate National Cemetery, San Bruno, San Mateo County;

ENG-04-203-59-12. Construction to develop 43 acres of cemetery including finish grading, removing and replacing topsoil, excavation and embankment, fertilizing, seeding; drainage—modify existing drainage structures, lawn sprinkler system, 8,000' of 4" and 6" main and 23,000' of branch piping, sprinklers, valves and faucets; grave site control markers; additive items for partial development of other cemetery land; chain link fencing; bituminous paving and rehabilitation of existing plaza (includes terrazzo tile facing, aluminum railing and stucco facing). Specs with above office. Bid bond 20%. Completion time June 30, 1959. RM 12-20

● **STORMWATER DRAINAGE—** **Stockton, Calif.**

(Estimated cost $140,000)

Bids will be opened December 22 by City Council, City Hall, Stockton, on three projects for improving stormwater drainage in residential areas north of the Calaveras River in Stockton: (1) pumping plant in the Pacific Oaks area; (2) pumping plant and trunkline in the Mayfair area; (3) major trunkline in the Park Woods subdivision. Specs with above address. RC 12-20

● **STREET EXTENSION—** **Stockton, Calif.**

Bids will be opened December 22 by City Council, City Hall, Stockton, for extending El Dorado St. north of the Calaveras River in Stockton. Work involves construction of 4,900' of two-lane roadway between the river and Robinhood Drive. Specs with above address. RC 12-20

● **HYDRANT FUELING SYSTEM—** **Travis AFB, Calif.**

Bid opening scheduled for 2 p.m., December 23, has been cancelled by Corps of Engineers, 305 Wright Bldg., 1209 Eighth St., Sacramento, for construction of hydrant fueling system (MATS), Travis Air Force Base, Solano County; ENG-04-167-59-25. RM 12-20. Previous report 12-6

. . . CONTRACTS PENDING . . .

BUILDING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

Dec 22—Klamath Falls—Hangar 12-6
Dec 22—Klamath Falls—School Remodeling 12-10
Dec 23—Portland—Store Expansion 12-11
Dec 23—Salem—Screenline Improvements 12-4
Dec 23—Salem—Bank 12-17
Dec 23—Tualatin—Acoustical Tile 12-6
Dec 29—Kingsley Field—Rocket Assembly Building (Modify) 12-16
Dec 29—Portland—Electrical Service, Air Compressor 12-5
Dec 30—Astoria—Church (Tower) 12-13
Jan 6—Turner—School Addition 12-10

WASHINGTON

Dec 22—Kingston—Shopping Center (Paul Bunyan) 12-3
Dec 22—Seattle—Electric Wiring 12-9
Dec 23—Seattle—Heating Plant 12-9
Dec 23—Bellevue—Office Building 12-6
Dec 23—Larson AFB—Magazine Addition 11-28
Dec 23—Paine AFB—Partitions, Acoustical Tile 12-5
Dec 23—Seattle—Building Demolition 12-3
Dec 23—Seattle—Power Cable 12-10
Dec 29—Chehalis—Electrical Work 12-12
Dec 30—Walla Walla—Plumbing 12-16
Dec 31—Long Beach—Post Office 12-6
Dec 31—Seattle—Dog Pound 12-13
Jan 2—Olympia—Office Building Addition (General Administration Annex) 12-10
Jan 5—Darrington—Post Office 12-3
Jan 5—Walla Walla—Lodge 12-17
Jan 7—Spokane—School 12-16
Jan 8—Seattle—Elementary (South Angle Lake) 12-11
Jan 14—Menlo—High School Addition 12-13
Jan 15—Seattle—Church School (Hope Lutheran) 12-6
Jan 20—Spokane—Postoffice Terminal 11-4
Jan 30—Oroville—Post Office 12-13

IDAHO

Dec 23—Moscow—Screenline, Door Alterations 12-5
Dec 23—Wallace—Roofing, Painting 12-4
Jan 6—Lapwai—School Additions 12-6
Jan 8—Arco—Hospital 12-16
Jan 9—Burley—Hospital 12-17

MONTANA

Dec 22—Miles City—Painting 12-3
Dec 23—Helena—Tile, Plaster, Marquee, Elevator 12-5
Dec 30—Bozeman—Stairs, Roofing 12-13
Jan 6—Glasgow AFB—Shop Building 12-9
Jan 9—Missoula—Church 12-17
Jan 13—Billings—Airport Tower 12-9
Jan 14—Frenchtown—High School 11-25
Jan 14—Glasgow AFB—Family Housing 12-12

ALASKA

Dec 24—Bettles—Apartment 12-4
Dec 30—Anchorage—Post Office, Courthouse Repairs 12-12
Jan 8—Kotzebue—Hospital 11-12
Jan 15—Shemya Island—Buildings 12-16
Jan 15—Bethel—School 10-4

ENGINEERING PROJECTS

Bids Must Be in — Date Printed in Pacific Construction Daily

OREGON

Dec 23—Portland—Irrigation System, Landscaping 12-5
Dec 23—Portland—Culvert Pipe 12-10
Dec 23—Portland—Cutback Asphalt 12-10
Dec 23—Portland—Dismantling Crane 12-11
Dec 23—Portland—Filters, Slurry Tanks 12-12
Dec 29—Portland—Nose Docks 12-5
Dec 29—Portland—Paving 12-6
Dec 29—Portland—Chain Link Fence 12-12
Dec 30—Merlin—Bridge Timbers 12-11
Dec 30—Portland—Galvanized Steel 12-13
Dec 30—Portland—Gas Piping 12-9
Dec 30—Portland—Perimeter Fence 12-5
Dec 30—Portland—Disconnecting Switch 12-12
Dec 30—Portland—Switchboard Instruments, Meters 12-12
Jan 13—Jackson County—Clearing, Removing Improvements 12-16
Jan 15—Burns—Power Line 12-12

WASHINGTON

Dec 22—Priest Rapids Dam—Gauging Station 11-25
Dec 22—Seattle—Fill Dirt 12-9
Dec 22—Seattle—Traffic Signal Heads 12-4
Dec 22—Seattle—Air Raid Sirens 12-17
Dec 23—Anacortes—Channel Light 12-11
Dec 23—Bellevue—Sewage Pump, Motor 12-17
Dec 23—Carrolls—Dolphin 12-12
Dec 23—Olympia—State Highway Project 11-21
Dec 23—Olympia—State Highway 12-5
Dec 23—Renton—Watermains 12-13
Dec 23—Seattle—Solder, Conductor Wire 12-17
Dec 24—Bremerton—Fence 12-16
Dec 24—Bremerton—Steel Water Tank 12-9
Dec 29—King County—Bridge 12-6
Dec 29—Vancouver—Snow Tractor, Trailer 12-17
Dec 30—Longview—Dikes 12-13
Dec 30—Vancouver—Instrument Transformers 12-17
Dec 31—Seattle—Water Meters 12-17
Jan 5—Everett—Pier 12-6
Jan 5—Wenatchee—Fence 12-17
Jan 6—Ephrata—Earthwork, Structures 12-9
Jan 6—Everett—Fender Piling 12-16
Jan 6—Ephrata—Pumping Plant 11-13
Jan 7—Bremerton—Water Tower Demolition 12-16
Jan 8—Ephrata—Roads, Structures 12-12
Jan 8—Quincy—Pumping Plant 12-12
Jan 9—Everett—Transformer 12-9
Jan 14—Everett—Cement-Mortar Lining 12-16
Jan 14—Tolt River—Dam (Storage Reservoir) 11-14
Jan 14—John Day Dam—Exacavation (Navigation Lock, Abutment) 12-12
Jan 15—Ice Harbor—Drilling, Grouting 12-4
Jan 21—Tolt River—Clearing (Reservoir Basin) 12-6
Mar 3—Ice Harbor Dam—Equipment (Turbines) 11-29

IDAHO

Dec 22—Cottonwood—Pump 12-10
Dec 23—Boise—State Highway Projects 12-10
Dec 23—Bonners Ferry—Driveway 12-6
Dec 23—Mountain Home—Magazines 11-26
Dec 30—Idaho Falls—Demineralization Plant 12-16
Dec 30—Idaho Falls—Reactor, Residue Handling Facility 12-16
Jan 6—Michaud Flats Project—Water Well 12-9
Jan 7—Idaho Falls—Reactor, Increment 12-11

MONTANA

Jan 6—Fort Peck—Substation 12-12
Jan 20—Browning—Gate Valves (Furnish) 12-12
Jan 27—Circle—Telephone Facilities 12-16

ALASKA

Dec 23—Cold Bay—Vortac Facility 12-3
Dec 23—Elmendorf—Lights, Barriers 12-4
Dec 29—Coghlan Island—LFM/HW Facility 12-5

Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

THE RATE for Advertisements for Bids is 35 cents per line for the first insertion; 25 cents per line for each insertion thereafter.

PUMPING PLANT, DISCHARGE LINES

BIDS CLOSE 10 A.M., P.S.T., JANUARY 6

Ephrata, Washington

NOTICE TO CONTRACTORS

DEPARTMENT OF THE INTERIOR, Bureau of Reclamation. Sealed bids (Specifications No. DC-5122) will be received at Ephrata, Washington, until 10 a.m., Pacific Standard Time, January 6, 1959, for furnishing labor and materials for the construction of Radar Pumping Plant, Lateral WB3, and Discharge Lines WB3A and WB3B, Columbia Basin Project, Washington. Location south of Othello, Washington. Principal items are 55,300 cu. yds. excavation; 2,800 cu. yds. concrete; 712 lin. ft. furnishing and laying 66-inch concrete pipe; 4,097 lin. ft. furnishing and laying 72-inch concrete pipe or alternative 72-inch steel pipe; lump sum, installing 5 main pump units; furnishing and installing other items of equipment and materials; and other work. Completion time 600 days. For particulars, address Bureau of Reclamation, P.O. Box 368, Ephrata, Washington; or Building 53, Denver Federal Center, Denver 2, Colorado. W. A. Dexheimer, Commissioner.

6350—11-22

CULVERT CROSSING

BIDS CLOSE 10 A.M., P.S.T., JANUARY 6

Ephrata, Washington

NOTICE TO CONTRACTORS

Department of the Interior, Bureau of Reclamation. Sealed bids (Specifications No. 117C-535) will be received at Ephrata, Washington, until 10 a.m., P.S.T., January 8, 1959, for furnishing labor and materials and performing all work for construction of Turnout and DPE40 Culvert Crossing of the Potholes East Canal and Supplemental Construction on the PE41.2 Lateral Blocks 16 and 19. Location northwest and southwest of Eltopia. Principal items are 3,800 cu. yds. excavation; 15 barrels cement; 308 lin. ft. concrete culvert pipe; 5 slide gates and lifts; and other work. Completion time 55 and 63 days. For particulars address the Bureau of Reclamation, P.O. Box 368, Ephrata, Washington.

6367—12-13

BRIDGE

BIDS CLOSE 2 P.M., P.S.T., DECEMBER 29

Snoqualmie River, Washington

NOTICE TO CONTRACTORS

Sealed bids for construction of South Fork Snoqualmie River Bridge (reinforced concrete) on the Snoqualmie National Forest, King County, Washington, will be received until 2:00 p.m., P.S.T., December 29, 1958, by the Regional Contracting Officer, P.O. Box 4137, 729 N.E. Oregon Street, Portland, Oregon. Bids may be secured from him or the Forest Supervisor, 905 Second Avenue Bldg., Seattle, Washington. Project includes 133 cu. yds. of concrete and 37,400 lbs. of reinforcing steel.

6365—12-6

STEEL WATER TANK

BIDS CLOSE 10 A.M., P.S.T., DECEMBER 24

Bremerton, Washington

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received at the office of the City Clerk located in the City Hall, in the City of Bremerton, Washington, up to, but not later than 10:00 o'clock A.M., P.S.T., Wednesday, the 24th day of DECEMBER, 1958, for the furnishing of all equipment, machinery, material, skill, tools and labor for designing, fabricating and erecting a 150,000 gallon elevated steel water storage tank, tower and accessories.

The water tank shall be erected, complete and ready for use by June 1, 1959.

Specifications, Proposal, Affidavit, Contract, and bond forms may be inspected at the Office of the City Engineer, and may be obtained from said office by intending bidders.

Proposals must be made on the printed forms attached to the Specifications and must be accompanied by a certified check, satisfactory bid bond, or cash deposit for not less than five (5) percent of the amount bid, made payable to the order of the City of Bremerton, Washington.

THE CITY RESERVES THE RIGHT TO REJECT ANY AND ALL BIDS.

E. H. T. McGOWAN,
CITY CLERK.

6366—12-13

SURFACING, EARTH LINING, STRUCTURES

BIDS CLOSE 10 A.M., P.S.T., JANUARY 8

Ephrata, Washington

NOTICE TO CONTRACTORS

Department of the Interior, Bureau of Reclamation. Sealed bids, (Specifications No. 117C-536) will be received at Ephrata, Washington, until 10 a.m., P.S.T., January 8, 1959, for furnishing labor and materials and performing all work for construction of Earth Lining, Gravel Road Surfacing and Structure Alterations W53.1D and W53.1E Laterals Block 79. Location south of Quincy. Principal items are about 8.0 miles of compacted earth lining and gravel road surfacing involving 98,050 cu. yds. excavation; 160 cu. yds. coarse gravel; and other work. Completion time 60 and 100 days. For particulars address the Bureau of Reclamation, P.O. Box 368, Ephrata, Washington. P. R. Nalder, Project Manager.

6368—12-13

WIRE MESH FENCE

BIDS CLOSE 10 A.M., DECEMBER 24

Bremerton, Washington

NOTICE TO CONTRACTORS

SEALED PROPOSALS WILL BE RECEIVED AT THE OFFICE OF THE CITY CLERK, BREMERTON, WASHINGTON, UP TO BUT NOT LATER THAN 10:00 o'clock A.M., WEDNESDAY, DECEMBER 24, 1958, for furnishing all materials and performing all work necessary to install in place a wire mesh fence 834 feet long, plus one 14-foot double swing gate. Bidders should inspect proposed site.

Specifications, plan and proposal forms may be obtained from the City Clerk, Bremerton.

E. H. T. McGowan
City Clerk

6370—12-16

STATE HIGHWAY PROJECT

BIDS CLOSE 10 A.M., DECEMBER 23

Olympia, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, December 23, 1958, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for item No. 1a.

The improvements for which bids will be received follow:

1a. Constructing Concrete Box Culverts, Concrete Siphon Boxes, Siphons and Irrigation Lines on 1.830 miles of Primary State Highway No. 5 in Yakima County, JACOBSON TO FRUITVALE BOULEVARD, FAP No. U-018-2(3), involving about 475 cubic yards of Concrete, 93,930 pounds of Steel Reinforcing Bars, 884 linear feet of Concrete Pipe and other items.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways

6363—12-6, 13

WATER TOWER DEMOLITION

BIDS CLOSE 10 A.M., JANUARY 7

Bremerton, Washington

NOTICE TO CONTRACTORS

SEALED PROPOSALS will be received by the City Clerk, City Hall, Bremerton, Washington, up to, but not later than 10:00 A.M., January 7, 1959, for the demolition of a wooden water tower located in Bremerton. Specifications and detailed requirements are available to any interested bidder and may be obtained from the City Clerk, Bremerton.

E. H. T. McGowan
City Clerk

6369—12-16

STEEL SUPERSTRUCTURE

BIDS CLOSE 10 A.M., DECEMBER 23

Lake Washington Ship Canal, Washington

NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, December 23, 1958, until 10 A.M. and will then and there be opened and publicly read for the construction of the improvement listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Bids will be opened . . .

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Materials

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(2nd, 3rd, 4th and 5th Saturdays)

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Advertisements for Bids

Advertisements reaching us not later than Wednesday noon will appear the same week.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for item No. 1.

The improvement for which bids will be received follow:

1. Constructing a Steel Truss Bridge with Reinforced Concrete Roadways on 0.434 mile of Primary State Highway No. 1 in King County, LAKE WASHINGTON SHIP CANAL BRIDGE—STEEL SUPERSTRUCTURE, FAP No. BI-5-3(39)169, involving about 9,650 cubic yards of Concrete, 2,330,000 pounds of Steel Reinforcing Bars, 11,436 linear feet of Aluminum Bridge Railing, 2 lump sum bids for Structural Steel (about 22,492,000 pounds), a lump sum bid for Cast Steel (about 378,000 pounds), a lump sum bid for Electrical Equipment and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways

6355—11-22,29; 12-6, 13

STATE HIGHWAY PROJECTS
BIDS CLOSE 10 A.M., JANUARY 6
Olympia, Washington
NOTICE TO CONTRACTORS

Sealed bids will be received by the Washington State Highway Commission at Olympia, Washington, on Tuesday, January 6, 1959, until 10:00 A.M. and will then and there be opened and publicly read for the construction of the improvements listed below.

Bid proposals delivered in person will be received only at the Reception Desk located on the first floor of the Transportation Building.

All bid proposals shall be accompanied by a bid proposal deposit in cash, certified check, cashier's check or surety bond in an amount equal to five per cent (5%) of the amount of such bid proposal. Should the successful bidder fail to enter into such contract and furnish satisfactory performance bond within the time stated in the specifications, the bid proposal deposit shall be forfeited to the State of Washington.

Prequalification of bidders is required. Maps, plans and specifications may be obtained from this office upon written request therefor and payment to the Director of Highways by cash, certified check, cashier's check or money order in the sum of two dollars ($2.00) for each copy of such maps, plans and specifications as a rental for the use of them. Plans will be forwarded by First Class Mail.

Informational copies of maps, plans and specifications are on file in the office of the County Engineer of the County in which the work is situated, the Chapter offices of the Associated General Contractors of America in Seattle, Spokane, Tacoma and Portland and the offices of the District Engineers of the Department of Highways where they may be inspected.

Federal Funds have been allocated for items Nos. 1 to 5 inclusive.

The improvements for which bids will be received follow:

1. Draining, Surfacing, Constructing Cement Treated Base and Bituminous Surface Treatment, Paving with Asphaltic Concrete, Fencing and Signing on 4.963 miles of Primary State Highway No. 2 in Chelan County, DRYDEN TO CASHMERE, FAP No. F-028-1(16), involving about 740 cubic yards of Common Excavation and Borrow, 71,580 tons of Crushed Surfacing, Ballast, Macadam Rock, Crushed Cover Stone and Cement Treated Base Aggregate, 200 cubic yards of Prime Coat Aggregate, 403 tons of Asphalt Cement, 29,030 tons of Asphaltic Concrete, 8,300 linear feet of Asphaltic Concrete Curb, 11,160 barrels of Portland Cement, 42,000 tons of Cement Treated Base, 700 linear feet of Cement Concrete Gutter, 4,015 linear feet of Extruded Cement Concrete Curb, 250 linear feet of Mountable Cement Concrete Curb, 10,632 linear feet of Concrete Pipe, 2,594 linear feet of Metal Pipe, 967 linear feet of Galvanized Conduit Pipe, 16,370 linear feet of Beam Guard Rail, 111 Guide Posts, 725 linear feet of Chain Link Fence, a lump sum bid for Signing and other items.
2. Clearing, Draining, Grading and Placing Riprap on 1.258 miles of Secondary State Highway No. 1-A in Skagit County, HOWEY ROAD TO SEDRO WOOLLEY, FAS No. S-0202(12), involving about 25 acres of Clearing, 258,580 cubic yards of Common Excavation and Borrow, 9,690 cubic yards of Unsuitable Foundation Excavation, 70 cubic yards of Crushed Surfacing, 19,980 tons of Loose Riprap, 1,418 linear feet of Concrete Pipe, 766 linear feet of Metal Pipe and other items.
3. Constructing Two Precast Prestressed Concrete Girder Bridges on 0.040 mile of Primary State Highway No. 1 in King County, PSH No. 2 OVERCROSSING, FAP No. I-5-3(42)142, involving about 5,724 linear feet of Prestressed Concrete Girders, 1,690 cubic yards of Concrete, 310,000 pounds of Steel Reinforcing Bars, 831 linear feet of Standard Bridge Railing and other items. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
4. Installing Illumination on Primary State Highway No. 1 in King County, RENTON TO MAY CREEK—ILLUMINATION, FAP No. I-B5-3(43)161, involving 4 lump sum bids for Installing Illumination. Minimum Wage Rates for this project have been predetermined by law and are set forth in the bid proposal.
5. Constructing a Reinforced Concrete Box Girder Bridge on 0.097 mile of a Yakima County Road, EUCLID BRIDGE, FAS No. S-0706(1), involving about 7,800 linear feet of Untreated Timber Piling, 960 linear feet of Concrete Piling, 2,005 cubic yards of Concrete, 446,630 pounds of Steel Reinforcing Bars, a lump sum bid for Structural Steel (about 9,450 pounds), 1,020 linear feet of Steel Handrail and other items.
6. Draining, Grading, Surfacing and Constructing Bituminous Surface Treatment on 47.510 miles of Franklin County Roads, BLOCK 20 FEEDER ROADS, ET AL, a State Project, involving about 94,050 cubic yards of Common Excavation, 2,210 cubic yards of Unclassified Excavation, 37,890 cubic yards of Solid Rock Excavation, 170,100 tons of Crushed Surfacing and Crushed Cover Stone, 430 tons of Asphalt Cement, 8,529 linear feet of Concrete Pipe, 4,029 linear feet of Metal Pipe and other items.

ERNEST J. KETCHAM, Chairman
W. A. BUGGE, Director of Highways

6371—12-20, 27

BUREAU OF RECLAMATION LISTS EQUIPMENT ITEMS
Bids Will Be Called During Next Three Months

The Bureau of Reclamation, Denver Federal Center, Denver, Colo. has announced major equipment and machinery items on which bids will be called during the next three months. Further information may be obtained by writing to the assistant commissioner and chief engineer, Bldg. 53, Denver Federal Center, Denver, Colo., referring to the title and number of the item as described below. Among the items listed are valves, transformers, gate, ventilating system.

VALVES, Little Wood River and Prineville Dams (12-2)—Little Wood River Project, Idaho and Crooked River Project, Ore. Description: Six 4'x6' high-pressure gate valves with hydraulic hoists, two for Little Wood River Dam and four for Prineville Dam. Total estimated weight is 216,000 lb.
Delivery date is 180 days.
Bids will be called late in December.

VALVES, Foss and Emigrant Dams (12-3)—Washita Basin Project, Oklahoma and Rogue River Basin Project, Ore. Description: Eight high-pressure gate valves with hydraulic hoists as follows—four 2'9"x2,9" for Foss Dam; one 3'6"x3'6", two 2'9"x2'9", and one 2'3"x2'3" for Emigrant Dam enlargement. Total estimated weight is 137,300 lb.
Delivery time is 180 days.
Bids will be called late in December.

VALVES, Sherburne Lake Dam (12-4)—Milk River Project, Mont. Description: two 4'x5' high-pressure gate valves and hydraulic hoists. Estimated weight is 63,000 lb.
Delivery is 180 days.
Bids will be called soon.

GATE, Trinity Dam (12-6)—Central Valley Project, Calif. Description: one 10'x20' fixed-wheel gate. Estimated weight is 214,000 lb.
Delivery is 360 days.
Bids will be called late in December.

VENTILATING SYSTEM, Trinity Dam (12-7)—Central Valley Project, Calif. Description: Blowers, motors and 32" diameter No. 10 gauge and 30", 12" and 9" diameter No. 20 gauge piping about 1,500' long. Estimated weight is 32,000 lb.
Delivery is 180 days.
Bids will be called soon.

TRANSFORMER, Radar Switchyard (21-9)—Columbia Basin Project, Wash. Description: one three-phase, 8,000/10,000 kva, 115 kv to 4.16 kv power transformer.
Delivery date in April, 1960.
Bids will be called soon.

HYDRAULIC TURBINES (12-11)—Collbran Project, Colo. Description: one 11,700 hp, 600 rpm., 2,430' head, horizontal-shaft, impulse-type hydraulic turbine with governor, shut-off valve, and separate by-pass valve for Upper Molina powerplant; and one 6,400 hp., 450 rpm, 1,328' head, horizontal-shaft, impulse-type hydraulic turbine with governor and shut-off valve for Lower Molina powerplant.
Bids will be called in January or February.

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